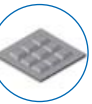
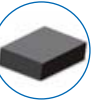




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Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

Derken 8
42327 Wuppertal-Vohwinkel



Administration and factory:

Derken 8
42327 Wuppertal

Postbox 11 06 36
42306 Wuppertal

Telephone: +49 (0) 2 02/2 73 46-0
Fax: +49 (0) 2 02/2 73 46-60 (-88) (-90)
Internet: www.technoprofil.com
E-Mail: info@technoprofil.de

TP Blau GmbH
Wuppertal District Court HRB 22148
Managing Director: Mirko Blau, 42111 Wuppertal



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TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

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42327 Wuppertal-Vohwinkel

A few words about **US**

TP Blau GmbH, a family business that emerged from the company Technoprofil Breidenbach & Blau GmbH & Co. KG, and its team of experienced employees can look back on more than 35 years of developing, manufacturing and marketing a constantly expanding portfolio of products.

Based in Wuppertal/Germany, **TP Blau GmbH** has obtained its know-how over the years by developing more than **4,000 products** and become a strong partner for our customers.

Here is what **WE can do four **YOU****

Technoprofil **TP Blau GmbH** supplies products in the areas of sealing technology, vibration absorption, and sound insulation.

The range of these products include all types of profiles, rubber mouldings and rubber/metal elements.

Our strong points also include vehicle windows and cab doors.

We can also supply you with all necessary accessories such as tools, sealing material, adhesives, etc.

It goes without saying that both our team in Wuppertal and our field service, will provide you with comprehensive support – from your idea to the start of production. We will find smart solutions to guarantee that supply and further processing are ensured in the most efficient way.



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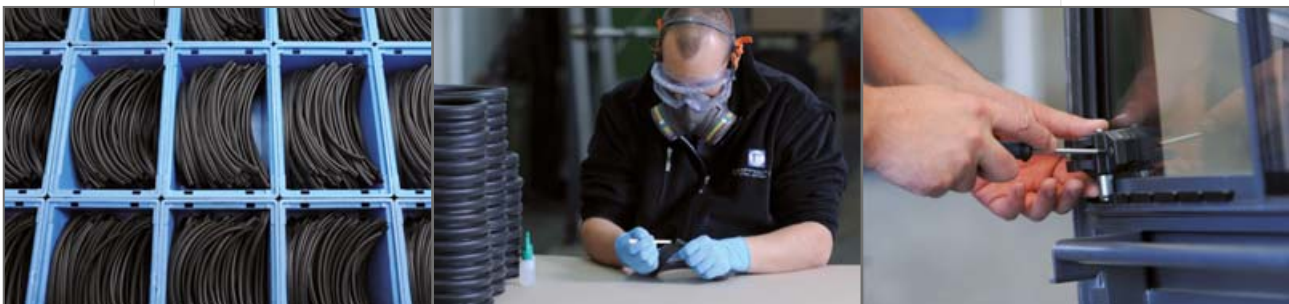
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Design

Solutions available in the market often do not suffice. This may be due to the special requirements on the product, such as heat resistance, oil resistance, etc. or simply due to special mechanical stresses.

The design of custom solutions, therefore, has been a special characteristic of our team, which has always provided reliable products for our customers, from the simplest to the most complex development for more than 35 years.



Packaging

In order to be able to offer you as many solutions as possible, we have a wide range of well-equipped packaging for a broad spectrum of applications from vulcanisation, heat-sealing, adhering, trimming, drilling, stamping, etc.



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Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

Derken 8
42327 Wuppertal-Vohwinkel

Contact persons/contact information

	Telephone	Fax	Email
Management			
Mr. Blau, Jr.	0202/27346-0	0202/27346-66	m.blau@technoprofil.de
Headquarters:			
Mr. Stegmaier	0202/27346-0	0202/27346-66	stegmaier@technoprofil.de



Accounting:

Mrs. Beckershaus 0202/27346-14 0202/27346-66 beckershaus@technoprofil.de

Sales:

Mr. Busch 0202/27346-20 0202/27346-88 busch@technoprofil.de

Purchasing and Logistics:

Mr. Diefenbach 0202/27346-19 0202/27346-90 diefenbach@technoprofil.de

Quality Assurance and Technology

Herr Ashauer 0202/27346-32 0202/27346-40 ashauer@technoprofil.de

Technical Department

Mr. Blau, Sr.. 0202/27346-13 0202/27346-40 blau@technoprofil.de

Management

Mr. Stegmaier 0202/27346-25 0202/27346-40 stegmaier@technoprofil.de



Field Staff North (Post code areas 1, 2, 3, 4, 5):

Mr. Danehl 0173/2940803 0202/27346-88 danehl@technoprofil.de

Field Staff South (Post code areas 0, 6, 7, 8, 9):

Mr. Ayoubi 0173/2940802 0202/27346-88 ayoubi@technoprofil.de





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TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

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CERTIFICATE

ISO 9001:2008

DEKRA Certification GmbH hereby certifies that the company

TP Blau GmbH
Technoprofil

Scope of certification:

Engineering, production and distribution of customer-oriented sealing solutions, edge protection sealing profiles and profiles with steel-band or wire cores, rubber and silicone sealings, pre-formed rubber products, rubber/metal elements, e. g. vibration dampers, light-metal window frames and doors for commercial vehicle manufacturers and glazing for vehicles (toughened safety glass/laminated safety glass)

Certified location:

D-42327 Wuppertal, Derken 8

has established and maintains a quality management system according to the above mentioned standard. The conformity was adduced with audit report no. A13051194.

This certificate is valid from 2013-07-15 to 2016-06-30

Certificate registration no.: 80713444
Duplicate




DEKRA Certification GmbH
Stuttgart, 2013-07-15



Deutsche
Akreditierungsstelle
D-ZM-16029-01-01

Lack of fulfilment on conditions as set out in the Certification Agreement may render this certificate invalid.

DEKRA Certification GmbH * Handwerkstraße 15 * D-70565 Stuttgart * www.dekra-certification.de
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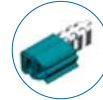
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E-Mail: info@technoprofil.de
web: www.technoprofil.com

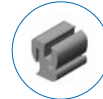
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Register Overview

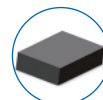
- A Edge protectors/sealing sections**
made of PVC, EPDM, CR, NBR, silicone, etc.



- B Glazing sections/filler sections**
made of PVC, EPDM, CR, NBR, etc.



- C Microcellular rubber sections/TECHNOflex tubes**
made of EPDM, CR, NBR, NR, etc.



- D Cellular rubber sections**
closed cells, self-adhesive, made of EPDM, CR, NBR, SBR, etc.



- E Plastic and rubber mouldings/rubber/metal elements /
damping elements/rubber/metal rails**
made of various materials



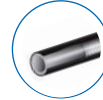
- F Elastomer sections/special sections/plastic sections**
made of PVC, TPE, EPDM, CR, SBR, etc.



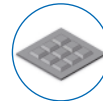
- G Window gaskets**
with flock coating/with and without metal inlay



- H Fuel hoses**



- I Industrial flooring**



- K Tools, sealants, adhesives, cleansers,
additional accessories, etc.**



- L Vehicle windows, cab doors and roof hatches**
made of light metal, toughened and laminated vehicle safety glass



- M Latches, locks, handles and additional accessories**



- T Technical properties**



- Z General Terms and Conditions of Delivery and Payment Order form,
Printout for your enquiries, Notes**





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Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

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Tel.: +49 (0) 2 02 / 27 34 6-0
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TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
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Derken 8
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A

Edge protectors/sealing sections

made of PVC, EPDM, CR, NBR, silicone, etc.





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Derken 8
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B

Glazing sections/filler sections made of PVC, EPDM, CR, NBR, etc.





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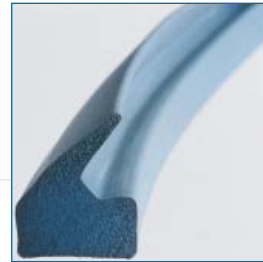
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Microcellular rubber sections / TECHNOflex tubes

made of EPDM, CR, NBR, NR, etc.



C



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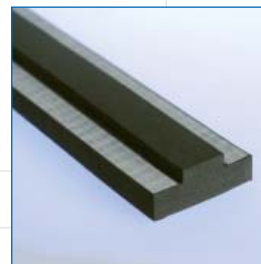
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Cellular rubber sections

closed cells, self-adhesive, made of EPDM, CR, NBR, SBR, etc.



D



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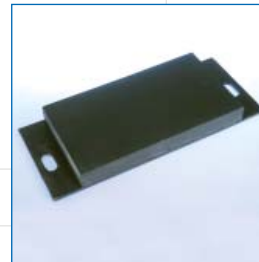
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Derken 8
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Plastic- and rubber-mouldings / rubber-metal-elements / damping elements / rubber-metal-rails

made of various materials



E



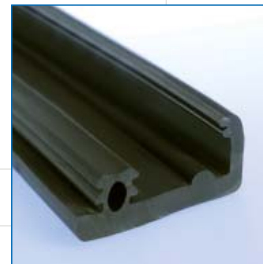
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Elastomer sections/special sections/plastic sections made of PVC, TPE, EPDM, CR, SBR, etc.



F



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Derken 8
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Window gaskets with flock coating / with and without metal inlay



G



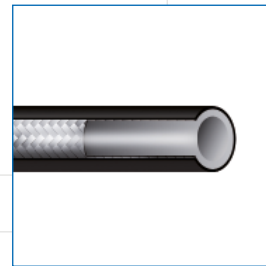
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Fuel hoses



H



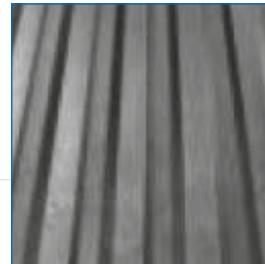
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Derken 8
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Tools, sealants, adhesives, cleansers, additional accessories, etc.



K



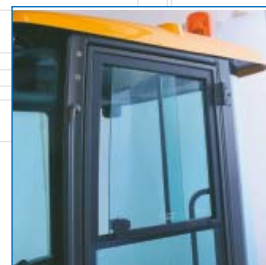
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Vehicle windows, cab doors and roof hatches made of light metal, toughened and laminated vehicle safety glass





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Technical properties



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General Terms and Conditions of Delivery and Payment Order form, Printout for your enquiries, Notes



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Derken 8
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Edge protectors are used wherever metal edges must be blunted or covered. Additional machining is not required. The edge guards also have a decorative effect and are flexible. The U-shaped metal clamps embedded in PVC ensure that the edge guards fit securely, even when the metal edge to be covered is curved inward or outward.

The guard is simply pressed into position by hand. Tools, adhesives or other connections are not required. Edge guards are available in different shapes, sizes, colours and finishes, depending on the intended use.

Combination sealing sections are PVC edge guards with bonded-on microcellular rubber sections and embedded metal clamping strips. These sections are made of microcellular rubber in the sealing area (EPDM quality) and of PVC in the clamping area. EPDM qualities are high-quality synthetic rubbers and are characterised by high resistance to ageing and good elasticity.

Rubber combination sealing sections are flexible edge guards made of soft rubber with embedded metal clamping strips.

These sections are made of microcellular rubber in the sealing area (EPDM quality) and of soft rubber (EPDM quality) in the clamping area.

The two materials are extrusion-vulcanised and bonded. Oil-resistant are available on request.

Tolerances:

Microcellular rubber sections **DIN 7715 E 3**

Soft rubber sections **DIN 7715 E 2**

PVC sections **DIN 16941**

Tolerances for cut lengths as agreed

Packaging

Cut lengths, enclosed frames (corner-vulcanised) and rings.

The flange can be filled with plastic sealants (on request). Ask for our quotation.

Custom designs

If the cross-sections illustrated here do not suit your requirements, the appropriate section can be custom-designed for you.

We would be happy to advise you and draw up a suitable design for your needs.

On request we can add flocking to rubber sections.



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Derken 8
42327 Wuppertal-Vohwinkel

Edge protectors made of PVC with embedded steel clamping strips

Design	Bend radius	Item no.	Technical data
		161 0460* black 161 0450* white 161 0520* grey	Clamping range: 0.8–1.0 mm Soft PVC Steel clamping strip Sales unit: 100 m
		161 0465*	Clamping range: 2.0 mm Soft PVC black Steel clamping strip Sales unit: 100 m
		161 0440*	Clamping range: 0.8–1.0 mm Soft PVC black Steel clamping strip Sales unit: 100 m
		161 0620* white grey 161 0825* black 161 0470* silver grey	Clamping range: 1.0–2.5 mm Soft PVC Steel clamping strip Sales unit: 100 m
		161 0826*	Clamping range: 1.0–2.0 mm Soft PVC Steel clamping strip Sales unit: 100 m

All sections are shown in 1:1 scale

x = clamping range

Minimum order quantities on request
* Available from stock, subject to prior sale
Issued 09-2013



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Derken 8
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Edge protectors made of PVC with embedded steel clamping strips

Design	Bend radius	Item no.	Technical data
		161 0823*	Clamping range: 1.0–3.0 mm Soft PVC black Steel clamping strip Sales unit: 100 m
		161 0824*	Clamping range: 1.0–3.0 mm Soft PVC black Steel clamping strip Sales unit: 100 m
		161 0329*	Clamping range: 3.5 mm Soft PVC black Steel clamping strip Sales unit: 100 m
		161 9630	Clamping range: 1.0–2.5 mm Soft PVC black Steel clamping strip Sales unit: 100 m
		161 9885	Clamping range: 1.0–2.5 mm Soft PVC black Steel clamping strip Sales unit: 100 m

All sections are shown in 1:1 scale

x = clamping range

Minimum order quantities on request
* Available from stock, subject to prior sale
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Derken 8
42327 Wuppertal-Vohwinkel

Edge protectors made of PVC with embedded steel clamping strips

Design	Bend radius	Item no.	Technical data
		161 0327*	Clamping range: 3.5 mm Soft PVC black Steel clamping strip Sales unit: 100 m
		161 0326* black 161 0720* anthracite 161 0920* light grey	Clamping range: 1.0–4.0 mm Soft PVC Steel clamping strip Sales unit: 100 m
		161 0135*	Clamping range: 4.0–6.0 mm Soft PVC black Steel clamping strip Sales unit: 100 m
		161 0134 light grey 161 0130* black	Clamping range: 1.0–4.5 mm Soft PVC Steel clamping strip Sales unit: 100 m
		161 0325*	Clamping range: 1.0–4.5 mm Soft PVC black Steel clamping strip Sales unit: 100 m

All sections are shown in 1:1 scale

x = clamping range

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Derken 8
42327 Wuppertal-Vohwinkel

Edge protectors made of PVC with embedded steel clamping strips

Design	Bend radius	Item no.	Technical data
		161 0360* black 161 0740* light grey	Clamping range: 6.0–8.0 mm Soft PVC Steel clamping strip Sales unit: 100 m
		161 9508*	Clamping range: 10.0 mm Soft PVC light grey Steel clamping strip Sales unit: 100 m



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Derken 8
42327 Wuppertal-Vohwinkel

Edge protectors made of PVC with embedded ABS clamping strips

Design	Bend radius	Item no.	Technical data
		165 9001 black 165 9002 light grey	Clamping range: 1.0–2.0 mm Soft PVC ABS clamping strip Sales unit: 100 m
		165 9003 black 165 9004 light grey	Clamping range: 1.0–2.0 mm Soft PVC ABS clamping strip Sales unit: 100 m
		165 9021	Clamping range: 1.5–3.5 mm Soft PVC black ABS clamping strip Sales unit: 100 m
		165 9005	Clamping range: 1.5–3.5 mm TPE/PVC black POM clamping strip Sales unit: 100 m



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Derken 8
42327 Wuppertal-Vohwinkel

Edge protectors made of solid rubber

Design	Bend radius	Item no.	Technical data
		161 9767	Clamping range: 1.0–3.0 mm EPDM soft rubber black Wire clamping strip Sales unit: 100 m
		161 9766	Clamping range: 2.0–4.0 mm EPDM soft rubber black Wire clamping strip Sales unit: 100 m
		161 9758	Clamping range: 4.0–5.0 mm EPDM soft rubber black Wire clamping strip Sales unit: 50 m
		161 9673	Clamping range: 1.0 mm EPDM soft rubber black Wire clamping strip Sales unit: 50 m
		161 9740	Clamping range: 2.0–4.0 mm EPDM soft rubber black Steel clamping strip Sales unit: 50 m

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Derken 8
42327 Wuppertal-Vohwinkel

Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
	R60	161 0960*	Clamping range: 1.0–2.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 100 m
	R120 R80 R30	161 0840*	Clamping range: 1.5–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
	R70 R80 R20	161 9798 PVC/EPDM microcellular rubber 161 9799 PVC/CR microcellular rubber	Clamping range: 1.5–4.0 mm black Steel clamping strip Sales unit: 50 m
	R70 R80 R30	161 9800	Clamping range: 1.5–5.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
	R80 R100 R20	161 9804	Clamping range: 1.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m

All sections are shown in 1:1 scale

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Derken 8
42327 Wuppertal-Vohwinkel

Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9626*	Clamping range: 2.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9805	Clamping range: 1.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9558*	Clamping range: 4.0–7.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 0843*	Clamping range: 2.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m

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x = clamping range

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Derken 8
42327 Wuppertal-Vohwinkel

Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9632	Clamping range: 1.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9802	Clamping range: 1.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9627	Clamping range: 1.0–2.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9803	Clamping range: 1.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m

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Derken 8
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Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9127*	Clamping range: 1.5–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 0950	Clamping range: 1.0–2.0 mm PVC soft/EPDM- microcellular rubber black Metal clamping strip Sales unit: 50 m
		161 9768	Clamping range: 1.0–2.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9599*	Clamping range: 2.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9631*	Clamping range: 1.0–3.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m

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Derken 8
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Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9772	Clamping range: 1.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9773	Clamping range: 2.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 0154*	Clamping range: 1.5–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9742*	Clamping range: 1.0–2.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9769	Clamping range: 2.0–3.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m

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Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9771	Clamping range: 2.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9770	Clamping range: 2.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9622	Clamping range: 0.5–2.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 0153*	Clamping range: 1.5–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9780	Clamping range: 1.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m

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Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 0660*	Clamping range: 1.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9783	Clamping range: 2.0–5.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9774	Clamping range: 1.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9778	Clamping range: 1.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9779	Clamping range: 2.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m

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Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9787	Clamping range: 1.5–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9785	Clamping range: 1.5–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9784	Clamping range: 1.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9782	Clamping range: 2.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9447*	Clamping range: 1.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m

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Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9507*	Clamping range: 3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9614	Clamping range: 1.0–4.5 mm PVC/EPDM microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9781	Clamping range: 1.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9790	Clamping range: 2.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9613*	Clamping range: 2.0–4.5 mm PVC/EPDM microcellular rubber black Wire clamping strip Sales unit: 50 m

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Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9612*	Clamping range: 2.0–4.5 mm PVC/EPDM microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9791	Clamping range: 6.0–8.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9792	Clamping range: 2.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9793	Clamping range: 2.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9263*	Clamping range: 1.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m

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Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9633*	Clamping range: 4.0–7.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9794	Clamping range: 1.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9795	Clamping range: 1.5–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9796	Clamping range: 1.5–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 0641*	Clamping range: 1.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m

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Combination sealing sections made of PVC with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9901	Clamping range: 1.0–3.5 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 0550* Clamping range: 2.0–4.5 mm 161 9663* Clamping range: 1.0–2.5 mm	PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 25 m
		161 9806	Clamping range: 1.0–4.0 mm PVC/EPDM microcellular rubber black Steel clamping strip Sales unit: 100 m

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Derken 8
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Combination sealing sections made of PVC with embedded metal clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		170 9865	Clamping range: 1.0–3.5 mm PVC/PUR foam black Steel clamping strip Length: 1.44 m



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Derken 8
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Combination sealing sections made of PVC with embedded ABS clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
	R60	165 9029	Clamping range: 1.0–2.0 mm Soft TPE/TPE/ microcellular rubber black ABS clamping strip Sales unit: 50 m
	R30	165 9026	Clamping range: 1.5–2.5 mm PVC/EPDM microcellular rubber black ABS clamping strip Sales unit: 50 m
	R50	165 9027	Clamping range: 1.5–3.5 mm PVC/EPDM microcellular rubber black ABS clamping strip Sales unit: 50 m
	R50	165 9024	Clamping range: 1.5–3.5 mm PVC/EPDM microcellular rubber black ABS clamping strip Sales unit: 50 m
	R30	165 9022	Clamping range: 1.5–2.5 mm PVC/EPDM microcellular rubber black ABS clamping strip Sales unit: 50 m

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Combination sealing sections made of PVC with embedded ABS clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		165 9030	Clamping range: 1.0–2.0 mm Soft TPE/TPE/ microcellular rubber black ABS clamping strip Sales unit: 50 m
		165 9025	Clamping range: 1.5–3.5 mm PVC/EPDM microcellular rubber black ABS clamping strip Sales unit: 50 m
		165 9023	Clamping range: 1.5–3.5 mm PVC/EPDM microcellular rubber black ABS clamping strip Sales unit: 50 m
		165 9028	Clamping range: 1.5–3.5 mm PVC/brush black ABS clamping strip Sales unit: 50 m
		165 9020	Clamping range: 4,0-5,0 mm PVC/EPDM microcellular rubber black ABS clamping strip Sales unit: 50 m

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Derken 8
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Ausführung	Biegeradius	Artikel Nr.	techn. Daten
		165 9031	Clamping Range: 4,0-5,0 mm PVC/EPDM microcellular rubber black ABS clamping strip Sales unit: 50 m



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Derken 8
42327 Wuppertal-Vohwinkel

Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9844	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 0845*	Clamping range: 0.8–2.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9845	Clamping range: 1.0–3.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 0841*	Clamping range: 1.0–2.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9581*	Clamping range: 2.0–5.0 mm NBR/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Derken 8
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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9846	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9161*	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 0842*	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9904	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9847	Clamping range: 3.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Derken 8
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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 0846*	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9122*	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9848	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9860	Clamping range: 1.0–3.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9001	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

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Derken 8
42327 Wuppertal-Vohwinkel

Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9876	Clamping range: 1.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9540*	Clamping range: 1.5–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9858	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9534	Clamping range: 1.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9862 Steel clamping strip 161 9863 Wire clamping strip	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Sales unit: 50 m

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Derken 8
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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9865	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9851	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9859	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9855	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9864	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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web: www.technoprofil.com

Derken 8
42327 Wuppertal-Vohwinkel

Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9013*	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9676	Clamping range: 3.0 mm EPDM/soft rubber/ microcellular rubber black Wire strip with melt fibres Sales unit: 50 m
		161 9199* Clamping range: 2.0–4.0 mm 161 9889 Clamping range: 1.0–2.0 mm	EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9849	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

All sections are shown in 1:1 scale

x = clamping range

Minimum order quantities on request

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Design	Bend radius	Item no.	Technical data
		161 9850	Clamping range: 1.0–3.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9861	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9583*	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9639*	Clamping range: 2.0–5.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9857	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

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Design	Bend radius	Item no.	Technical data
		161 9852	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9870	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9675	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9100*	Clamping range: 1.0–2.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9856	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9871	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9868	Clamping range: 1.5–5.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9853	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9578	Clamping range: 2.0–5.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9837	Clamping range: 2.0–3.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9875	Clamping range: 2.5–5.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9854	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9866	Clamping range: 1.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9759	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
	R60	161 0847*	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
	R150 R100	161 9867	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
	R130 R110 R50	161 9874	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
	R60	161 9896	Clamping range: 1.0–2.5 mm EPDM/soft rubber/ microcellular rubber black with butyl sealing cord Steel clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9872	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9873	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9322*	Clamping range: 1.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 0160*	Clamping range: 0.8–2.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9812	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9807	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9808	Clamping range: 1.0–3.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 0844* EPDM/soft rubber/ microcellular rubber 161 9811 NBR/soft rubber/ microcellular rubber	Clamping range: 1.0–2.5 mm black Wire clamping strip Sales unit: 50 m
		161 9170*	Clamping range: 1.0–2.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Design	Bend radius	Item no.	Technical data
		161 9140*	Clamping range: 1.5–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9810	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9815	Clamping range: 1.5–3.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9818	Clamping range: 1.0–3.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9813	Clamping range: 1.0–3.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9816 Wire clamping strip Clamping range: 1.5–4.0 mm 161 9817 Steel clamping strip Clamping range: 1.0–3.5 mm	EPDM/soft rubber/ microcellular rubber black Sales unit: 50 m
		161 9814	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9355*	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9819	Clamping range: 1.0–3.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9410	Clamping range: 1.5 mm CR soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9686	Clamping range: 3.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9822	Clamping range: 1.0–3.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9697	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9820 Steel clamping strip 161 9821 Wire clamping strip	Clamping range: 1.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Sales unit: 50 m
		161 9834	Clamping range: 1.5–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 0159*	Clamping range: 1.5–3.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9833	Clamping range: 1.0–3.5 mm CR soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9698	Clamping range: 1.5–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9690	Clamping range: 3.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9678	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9647*	Clamping range: 5.0–8.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9680	Clamping range: 4.0–6.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9408*	Clamping range: 1.5–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9685	Clamping range: 2.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 0161*	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Derken 8
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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9835	Clamping range: 1.5–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9688	Clamping range: 3.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9689	Clamping range: 3.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9691	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9836	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9823 Steel clamping strip 161 9824 Wire clamping strip	Clamping range: 1.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Sales unit: 50 m
		161 9679	Clamping range: 1.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9723	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9565	Clamping range: 3.0–6.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9489*	Clamping range: 5.0–9.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9828	Clamping range: 1.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9829	Clamping range: 1.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9722	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9683	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9732	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

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Design	Bend radius	Item no.	Technical data
		161 0155* Clamping range: 4.0–6.0 mm 161 9743* Clamping range: 2.0–4.0 mm	EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9652*	Clamping range: 3.0–6.0 mm EPDM/soft rubber/ microcellular rubber black Segmented steel clamping strip Sales unit: 50 m
		161 9832	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9682	Clamping range: 3.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9687	Clamping range: 4.0–6.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9344	Clamping range: 1.5 mm CR soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9619	Clamping range: 3.5–6.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9693	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 0152*	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9486*	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Segmented steel clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9694 Steel clamping strip 161 9839 Wire clamping strip	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Sales unit: 50 m
		161 9702	Clamping range: 1.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9681	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9898	Clamping range: 1.5–3.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9607	Clamping range: 4.5–8.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

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Design	Bend radius	Item no.	Technical data
		161 9699	Clamping range: 2.5–5.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9648	Clamping range: 2.5–4.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9677	Clamping range: 1.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9830	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9825 Steel clamping strip 161 9826 Wire clamping strip	Clamping range: 1.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Sales unit: 50 m

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Design	Bend radius	Item no.	Technical data
		161 9715	Clamping range: 2.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9567	Clamping range: 0.8 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9908	Clamping range: 1,0 mm EPDM/soft rubber/ microcellular rubber Steel clamping strip Sales unit: 50 m
		161 9703	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9733	Clamping range: 1.5–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9701	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9704	Clamping range: 1.5–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9724	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9707	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9713	Clamping range: 3.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9705	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9891	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9700 Wire clamping strip 161 9840 Steel clamping strip	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Sales unit: 50 m
		161 9720	Clamping range: 6.0–8.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9706	Clamping range: 1.5–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

All sections are shown in 1:1 scale

x = clamping range

Minimum order quantities on request
* Available from stock, subject to prior sale
Issued 09-2013



technoprofil
TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

Derken 8
42327 Wuppertal-Vohwinkel

Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9714	Clamping range: 4.0–6.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9709	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9674	Clamping range: 2.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9748	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9533	Clamping range: 1.0–2.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

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x = clamping range

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TP Blau GmbH

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Derken 8
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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9827	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9710	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9730	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9718 Steel clamping strip (R120 + R80) 161 9719 Wire clamping strip (R70 + R40)	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Sales unit: 50 m
		161 9695 Steel clamping strip 161 9696 Wire clamping strip	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9749	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9708	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9712	Clamping range: 4.0–6.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9716	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9727	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

All sections are shown in 1:1 scale

x = clamping range

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9729	Clamping range: 1.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9717	Clamping range: 6.0–8.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9726	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9645	Clamping range: 1.5–2.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9838	Clamping range: 3.0–4.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

All sections are shown in 1:1 scale

x = clamping range

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9728	Clamping range: 1.5–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9642	Clamping range: 0.8 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9725	Clamping range: 1.5–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9711	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9684	Clamping range: 3.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9618	Clamping range: 3.0–5.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9731	Clamping range: 1.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9753*	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9083*	Clamping range: 1.0–2.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m

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Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

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Derken 8
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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9721	Clamping range: 6.0–8.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9404	Clamping range: 1.5–3.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m



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Fax: +49 (0) 2 02 / 27 34 6-60

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Sealing sections made of solid rubber with embedded steel clamping strips and microcellular rubber sealing area

Design	Bend radius	Item no.	Technical data
		161 9369*	Clamping range: 1.8 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 100 m
		161 0644*	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 0642*	Clamping range: 1.0–2.5 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9735	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Segmented steel clamping strip Sales unit: 50 m
		161 9737	Clamping range: 2.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

All sections are shown in 1:1 scale

x = clamping range

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TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

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Derken 8
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Sealing sections made of solid rubber with embedded metal clamping strips

Design	Bend radius	Item no.	Technical data
		161 9734	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9736	Clamping range: 1.0–3.5 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9738	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Wire clamping strip Sales unit: 50 m
		161 9577*	Clamping range: 2.0–5.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m
		161 9739	Clamping range: 2.0–4.0 mm EPDM/soft rubber/ microcellular rubber black Steel clamping strip Sales unit: 50 m

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x = clamping range

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TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
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Derken 8
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Sealing sections made of solid rubber with embedded metal clamping strips

Design	Bend radius	Item no.	Technical data
		161 0650*	Clamping range: 1.0–2.0 mm EPDM soft rubber black Steel clamping strip Sales unit: 50 m
		161 0530*	Clamping range: 1.0–2.0 mm EPDM soft rubber black Steel clamping strip Sales unit: 50 m
		161 9646*	Clamping range: 1.0–2.5 mm EPDM soft rubber black Stainless steel wire clamping strip Sales unit: 50 m
		161 9882	Clamping range: 1.5–3.0 mm EPDM soft rubber black Steel clamping strip Sales unit: 50 m
		161 9023	Clamping range: 1.0–2.0 mm EPDM soft rubber black Steel clamping strip Sales unit: 15 m

All sections are shown in 1:1 scale.

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Sealing sections made of solid rubber with embedded metal clamping strips

Design	Bend radius	Item no.	Technical data
	R50	161 9842	Clamping range: 1.5–3.0 mm EPDM soft rubber black Wire clamping strip Sales unit: 50 m
	R30	161 9843	Clamping range: 1.5–3.0 mm EPDM soft rubber black Steel clamping strip Sales unit: 50 m
	R40	161 9535*	Clamping range: 3.0 mm EPDM soft rubber black Steel clamping strip Sales unit: 30 m



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Sealing sections made of solid rubber with embedded metal clamping strips

Design	Bend radius	Item no.	Technical data
	R15	161 0350* EPDM soft rubber 161 9350* NBR (oil resistant)	Clamping range: 0.5–2.0 mm black Steel clamping strip Sales unit: 50 m
	R50	161 9878*	Clamping range: 3.0–4.0 mm EPDM soft rubber black Wire clamping strip Sales unit: 50 m
	R25	161 9002	Clamping range: 0.5–2.0 mm EPDM soft rubber black Wire clamping strip Sales unit: 20 m
	R50	161 9877	Clamping range: 3.0–4.0 mm EPDM soft rubber black Wire clamping strip Sales unit: 50 m

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Sealing sections made of solid rubber with embedded metal clamping strips

Design	Bend radius	Item no.	Technical data
	R30	161 9741	Clamping range: 1.5–3.0 mm EPDM soft rubber black Steel clamping strip Sales unit: 50 m
	R60 R80	161 9751*	Clamping range: 1.0–2.5 mm EPDM soft rubber black Wire clamping strip Sales unit: 50 m
	R120 R50	161 9841	Clamping range: 2.0–5.0 mm EPDM soft rubber black Steel clamping strip Sales unit: 50 m

All sections are shown in 1:1 scale

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TP Blau GmbH

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Derken 8
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Sealing sections made of solid rubber without clampfitting

Design	Bend radius	Item No.	Technical data
	R50	103 9664	Clamping range: 0,8-1,3 mm EPDM soft rubber black 90/65 Shore A Sales unit: 50 m
	R50	103 9707	Clamping range: 0,8-1,3 mm EPDM soft rubber black 90/70 Shore A Sales unit: 50 m



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TP Blau GmbH

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Fax: +49 (0) 2 02 / 27 34 6-60

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Derken 8
42327 Wuppertal-Vohwinkel

Sealing sections made of silicone with embedded metal clamping strips

Design	Bend radius	Item no.	Technical data
		106 9002	Clamping range: 2.0 mm Silicone grey white RAL 9002 Wire clamping strip Sales unit: 50 m
		106 9006	Clamping range: 0.8–2.0 mm Silicone 60 Shore A grey RAL 7021 Wire clamping strip Sales unit: 25 m
		106 9003	Clamping range: 1.5–3.0 mm Silicone black Wire clamping strip Sales unit: 50 m
		161 9346	Clamping range: 0.5–2.0 mm Silicone black Wire clamping strip Sales unit: 25 m

All sections are shown in 1:1 scale

x = clamping range

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technoprofil
TP Blau GmbH

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Derken 8
42327 Wuppertal-Vohwinkel

The glazing sections shown in the catalogue show cross-sections from our standard program.

The sections marked with * are available from stock.

On request, we produce custom designs according to your design recommendations or our own recommendations. We would be happy to advise you.

Qualities

Our glazing sections are made of EPDM (Ethylene Propylene Terpolymer).

EPDM is characterised by outstanding weather and ozone resistance.

Our quality is paint neutral.

Other qualities, such as NBR for outstanding oil resistance, are also available on request.

Tolerance

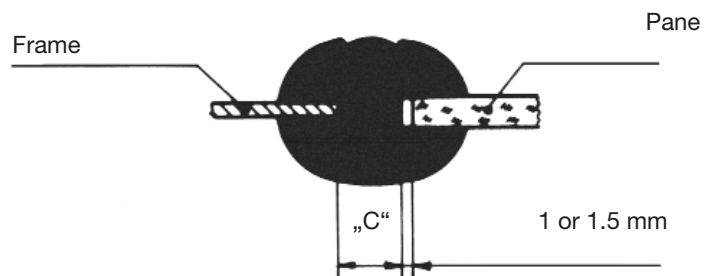
DIN 7715 E 2; tolerances for fixed lengths; tolerances to be agreed

Packaging

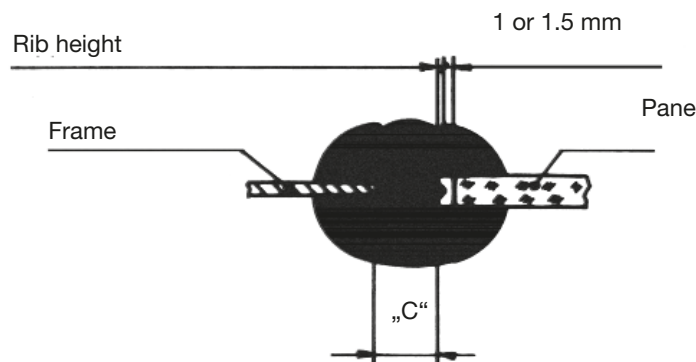
Cut lengths, adhered or vulcanised frame or ring



Calculation for pane dimensions



1. Web thickness up to "C" = 7 mm
Window opening – 2 x Web thickness "C" – 2 x 1 mm
2. Web thickness greater than "C" = 7 mm
Window opening – 2 x Web thickness "C" – 2 x 1.5 mm



3. Web thickness up to "C" = 7 mm
Window opening – 2 x Web thickness "C" – 2 x Rib height – 2 x 1 mm
4. Web thickness greater than "C" = 7 mm
Window opening – 2 x Web thickness "C" – 2 x Rib height – 2 x 1.5 mm



Glazing sections

The rubber glazing sections are shown in such a way that the pane channel (Dimension "A") always faces up and the fold channel (Dimension "B") always faces down. The specified bend radii are the smallest measurements.

Design	Item no.	Dimensions in mm						Bend radius mm	Wt. g/m	Sales unit m	Filler section no. **
		A	B	C	D	E	F				
	101 0100*	3	1	4	11.6	4.5	6	35	140	50	104 0100
	101 0400*	4	1.5	4	13.6	5	6	35	160	20	104 0100
	101 0500*•	4	1.5	7	16	7	7	80	300	20	104 0200
	101 0600*	4	1.5	7.5	17.5	7.5	8	90	326.2	20	104 0200
	101 0700*	4	2	7.3	18	11	8.7	100	398.1	15	104 0200
	101 0730*	4	3	4	12.6	5	6	35	151.5	20	104 0100
	101 0800*•	4	3	7	16	7	7	80	256.9	20	104 0200
	101 0900*	4	3	7.5	19	12.5	9.5	80	505.8	15	104 0200
	101 9107*	4	4	7.5	18	7.5	8	70	340	25	104 0200
	101 0110*	4.5	5	7	16	7	7	80	260	20	104 0200
	101 9064	4.5	6	7.2	21.2	11.8	8.6	120	490.3	30	104 0200
	101 9420	5	3	6.5	21	7.5	7	80	485	30	104 0200
	101 0940*	5	2	5	14.6	6	6	40	173.9	20	104 0200
	101 0210*	5	2	7.5	19	12.5	9.5	80	460	20	104 0200
	101 0930*	5	3	7.5	18	7.5	8	70	346.2	15	104 0200
	101 0310*	5	3	7.5	19	12.5	9.5	80	452.2	20	104 0200
	101 0410*•	5	5	7	18.4	9	8	80	317.6	20	104 0200
	101 0510*	5.5	2	7.3	19	11	8.7	80	420	20	104 0200
	101 0610*	6	1.5	7.5	19	12.5	9.5	80	480	15	104 0200
	101 0710*•	6	2.5	7	19	8	8	80	346.6	20	104 0200
	101 0810*	6	3	7.5	19	12.5	9.5	80	386.6	20	104 0200
	101 0910*	6	4	7.5	19	12.5	9.5	80	435.7	20	104 0200
	101 0812	7	3.3	7.2	21.5	11.8	8.6	120	440	40	104 0200
	101 9063	7.7	6	7.2	21.2	11.8	8.6	120	489	30	104 0200
	101 0740*	8	4	8.5	25	12.5	10	100	599.7	20	104 0200
	101 9034	14	4	11	29	11	12	100	758.9	14.5	104 0200

Minimum order quantities on request
* Available from stock, subject to prior sale

- * The specified numbers are standard filler sections made of black rubber.
PVC filler sections are also available in the same dimensions with various colours.
- Available in oil-resistant version with use of existing tool. Minimum purchase on request.



Custom glazing sections

The rubber glazing sections are shown in such a way that the pane channel (Dimension "A") always faces up and the fold channel (Dimension "B") always faces down. The specified bend radii are the smallest measurements.

Design	Item no.	Bend radius mm	Weight g/m	Sales unit m	Filler section no. **
	101 0440* • 101 9440 • (NBR)	100	418.5	15 20	104 0200
	101 0441*	100	467.20	15	104 0200
	101 0442	100	605	15	104 0200
	101 0840 *	100	533.6	15	104 0200

Minimum order quantities on request
* Available from stock, subject to prior sale

- * The specified numbers are standard filler sections made of black rubber.
PVC filler sections are also available in the same dimensions with various colours.
- Available in oil-resistant version with use of existing tool. Minimum purchase on request.



Custom glazing sections

The rubber glazing sections are shown in such a way that the pane channel (Dimension "A") always faces up and the fold channel (Dimension "B") always faces down. The specified bend radii are the smallest measurements.

Design	Item no.	Bend radius mm	Weight g/m	Sales unit m	Filler section no. **
	101 0620	80	480	15	104 0200
	101 9020	100	640	20	104 0200
	101 9068	100	503	30	104 0200

Minimum order quantities on request
* Available from stock, subject to prior sale

- * The specified numbers are standard filler sections made of black rubber. PVC filler sections are also available in the same dimensions with various colours.
- Available in oil-resistant version with use of existing tool. Minimum purchase on request.



Custom glazing sections

The rubber glazing sections are shown in such a way that the pane channel (Dimension "A") always faces up and the fold channel (Dimension "B") always faces down. The specified bend radii are the smallest measurements.

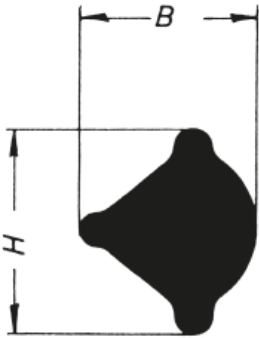
Design	Item no.	Bend radius mm	Weight g/m	Sales unit m	Filler section no. **
	101 9055	80	463	15	2 x 104 0200
	101 9005	100	640	20	104 0200
	101 9073	–	1460	15	104 0200

Minimum order quantities on request
* Available from stock, subject to prior sale

- * The specified numbers are standard filler sections made of black rubber.
PVC filler sections are also available in the same dimensions with various colours.
- Available in oil-resistant version with use of existing tool. Minimum purchase on request.



Filler sections

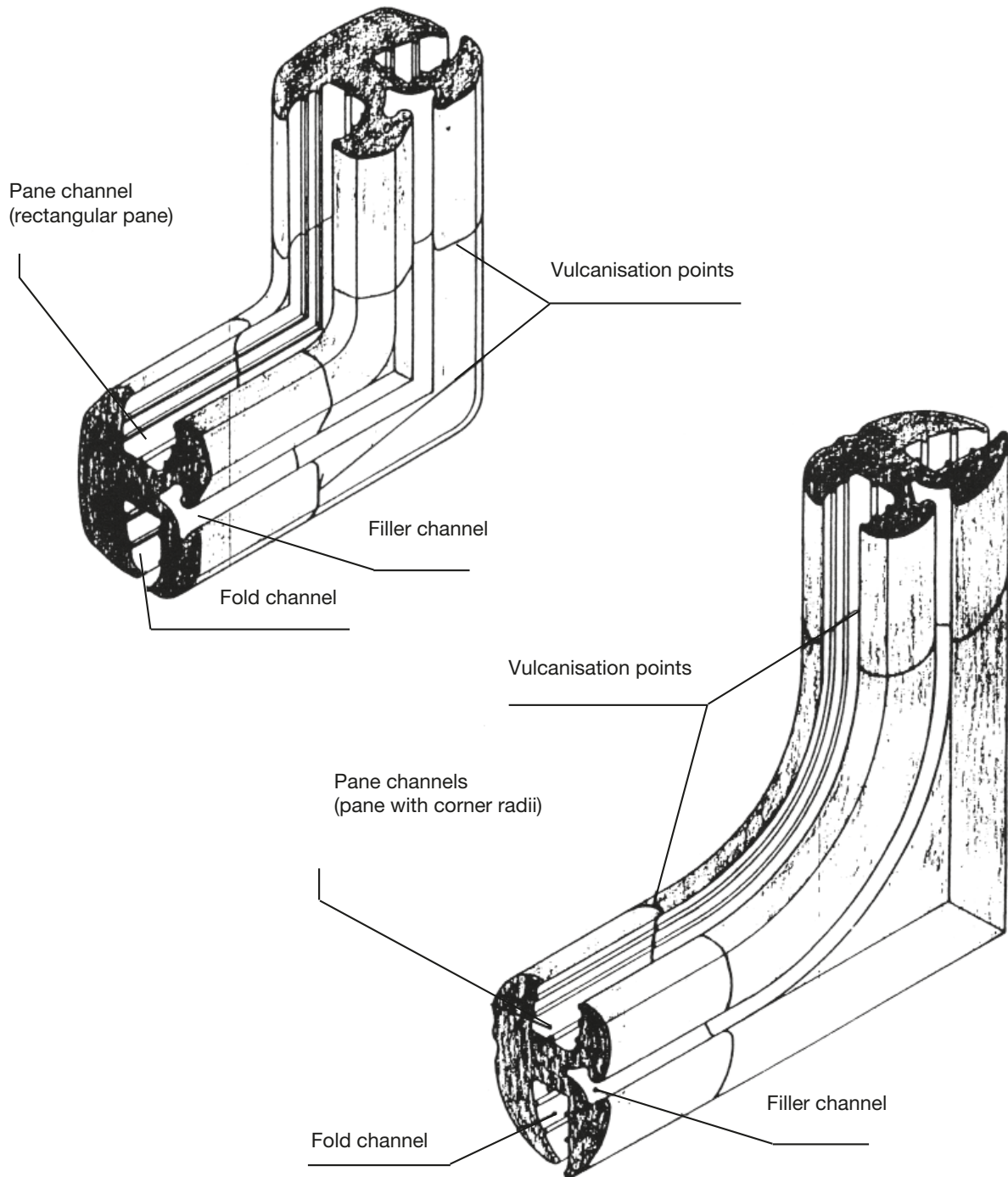
Design	Item no.	Dimensions in mm		Material	Colour	Weight g/m	Sales unit m	Hardness
		H	B					
	104 0000*	5.5	4.5	EPDM	black	15.6	100	85
	146 0420*	5.5	4.5	PVC	white	32	100	80
	104 0100*	7	6	EPDM	black	25.8	100	85
	146 0520	7	6	PVC	ivory	32	on request	80
	146 0620*	7	6	PVC	silver	32	100	80
	146 0820*	7	5.5	PVC	white	32	100	80
	104 0150	8	7	EPDM	black	45	100	85 – 90
	104 0200*	9.5	7.5	EPDM	black	49.4	100	85
	146 9002*	9.5	7.5	PVC	black	40	100	80
	146 0920*	9.5	7.5	PVC	ivory	40	100	80
	146 0030*	9.5	7.5	PVC	silver	40	100	80
	146 0130	9.5	7.5	PVC	red RAL 3003	40	100	80
	146 0230*	9.5	7.5	PVC	white	40	100	80
	146 9010	11	7	TPE	black	50	100	95

The PVC filler surface is shiny.
Design modifications reserved.

Minimum order quantities on request
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Vulcanised corners for rubber glazing sections – Examples –





technoprofil
TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

Derken 8
42327 Wuppertal-Vohwinkel

Overview of corner-vulcanised rubber glazing section frame

Item no.	Vulcanised corner	Sectional cross-section
101 7440	Fold channel Filler channel Pane channel	101 0440
101 7812	Fold channel Filler channel Pane channel Also available as 65° corner.	101 0812



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TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

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Derken 8
42327 Wuppertal-Vohwinkel

Overview of corner-vulcanised rubber glazing section frame

Item no.	Vulcanised corner	Sectional cross-section
101 7063		101 9063
101 7064		101 9064



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TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

Derken 8
42327 Wuppertal-Vohwinkel

Overview of corner-vulcanised rubber glazing section frame

Item no.	Vulcanised corner	Sectional cross-section
101 6063		
101 6064		



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TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

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web: www.technoprofil.com

Derken 8
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Overview of corner-vulcanised rubber glazing section frame

Item no.	Vulcanised corner	Sectional cross-section
101 7068		
101 7082		



technoprofil
TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

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Overview of corner-vulcanised rubber glazing section frame

Item no.	Vulcanised corner	Sectional cross-section
100 6071		
100 7071		



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Overview of corner-vulcanised rubber glazing section frame

Item no.	Vulcanised corner	Sectional cross-section
101 7073		101 9073



Microcellular rubber sections

Round, rectangular and semicircular sections

All microcellular rubber sections are supplied with a normal, unbroken skin.

For adherence to precise length measurements, the microcellular sections are also available with cord inlay. Here too, production capabilities are determined by the required cross-section. If required we can also supply them in cut lengths and as complete rings. A large number of special selections are available. Please consult the illustrations. Minimum order quantities available on request.

Qualities:

a) We normally supply EPDM grades.

EPDM is an elastomer characterised by an excellent resistance to weather and ozone. EPDM temperature resistance is comparable to that of chloroprene rubbers.

The resistance to oil, grease and solvents is comparable to that of natural rubber.

b) Microcellular sections of chloroprene (neoprene or perbunan) are available for more stringent requirements in respect of resistance to oil and weathering.

c) We also have the possibility of delivery in natural rubber.

Colours:

All microcellular rubber sections are supplied in black. Other colours, like light or dark grey are sometimes available. Other colours are only available in exceptional cases and against appropriate surcharge.

Tolerances:

The dimensions stated for the microcellular rubber sections do not include tolerances. The sections are produced to DIN 7715 E 3.

Packaging

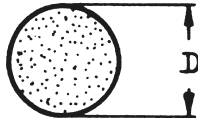
Cut lengths, adhered or vulcanised frame or ring

Extract from DIN 7715 E3.

Nominal size	up to 2.5	2.5 – 4	4 – 6.3	6.3 – 10	10 – 16	16 – 25	25 – 40
Class E3	± 0.5	± 0.7	± 0.8	± 1	± 1.3	± 1.6	± 2



Round microcellular rubber sections



Dimensions in mm

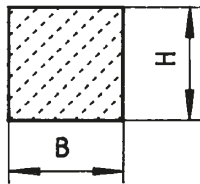
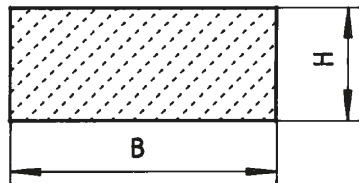
Diameter D	Item no.
2	121 0289
3	121 0001
4	121 0002
5	121 0003
6	121 0004
7	121 0005
8	121 0006
10	121 0008
12	121 0010
15	121 0013
20	121 0018
25	121 0023
30	121 0022

Available from stock, subject to prior sale
Minimum order quantity: 100 m, depending on the roll length.

Other dimensions, minimum order quantities and delivery periods specified on request.



Rectangular microcellular rubber sections



Dimensions in mm

The cross-sections shown here can also be ordered as self-adhesive. Minimum quantities and delivery time on request.

Dimensions W x H	Item no.	Dimensions W x H	Item no.
2 x 15	121 0041	8 x 10	121 0095*
2 x 20	121 0042*	8 x 12	121 0096*
3 x 8	121 0293*	8 x 15	121 0098*
3 x 10	121 0044*	8 x 16	121 0099
3 x 12	121 0294*	8 x 20	121 0101*
3 x 15	121 0045*	8 x 25	121 0303*
3 x 20	121 0046*	8 x 30	121 0304*
3 x 25	121 0295*	8 x 38	121 0103
3 x 30	121 0296*	8 x 40	121 0305*
3 x 40	121 0047*	8 x 50	121 0306
4 x 6	121 0051*	10 x 10	121 0107*
4 x 8	121 0053*	10 x 12	121 0108*
4 x 10	121 0054*	10 x 15	121 0307*
4 x 12	121 0055*	10 x 20	121 0110*
4 x 15	121 0057*	10 x 25	121 0111*
4 x 18	121 0058	10 x 30	121 0112*
4 x 20	121 0059*	10 x 40	121 0114*
4 x 25	121 0060*	10 x 50	121 0308*
4 x 30	121 0061*	12 x 12	121 0116*
4 x 40	121 0298*	12 x 20	121 0309*
5 x 5	121 0063*	12 x 25	121 0310*
5 x 10	121 0066*	12 x 30	121 0118
5 x 12	121 0067*	12 x 40	121 0311*
5 x 15	121 0069*	12 x 50	121 0312
5 x 20	121 0071*	15 x 15	121 0119*
5 x 25	121 0072*	15 x 20	121 0120*
5 x 30	121 0073*	15 x 25	121 0122*
5 x 40	121 0074*	15 x 30	121 0313*
5 x 50	121 0075*	15 x 40	121 0314*
6 x 6	121 0076*	15 x 50	121 0315*
6 x 8	121 0077*	20 x 20	121 0128*
6 x 10	121 0079*	20 x 25	121 0316*
6 x 12	121 0080*	20 x 30	121 0129*
6 x 15	121 0299*	20 x 40	121 0130*
6 x 20	121 0084*	20 x 50	121 0317*
6 x 25	121 0300*	25 x 25	121 0318*
6 x 30	121 0085*	25 x 30	121 0319*
6 x 40	121 0301*	25 x 40	121 0132*
6 x 50	121 0302	25 x 50	121 0320*
7 x 10	121 0088*	30 x 40	121 0321*
7 x 20	121 0091	30 x 50	121 0322*
8 x 8	121 0094*		

Minimum order quantities on request
* Available on short notice, subject to prior sale
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TP Blau GmbH

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42327 Wuppertal-Vohwinkel

Microcellular rubber sections

121 0339 NR, dark grey	121 0336 NR, dark grey	121 0341 NR, dark grey
121 0327 EPDM, black	121 0325 EPDM, black	121 0334 NR, dark grey
121 0323 NR, dark grey	121 0326 NR, dark grey	121 9326 (oil-resistant) CR, dark
121 0229 NR, light grey	121 0340 EPDM, dark grey	121 9858 EPDM, black, self-adhesive on one side

Minimum order quantities on request
* Available from stock, subject to prior sale
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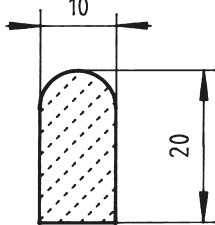
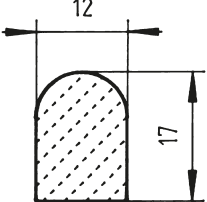
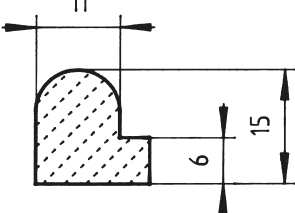
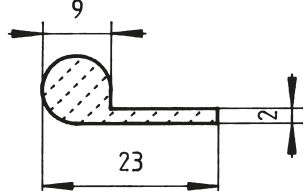
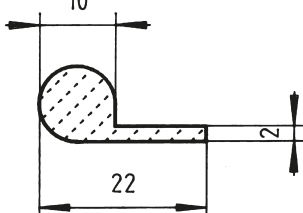
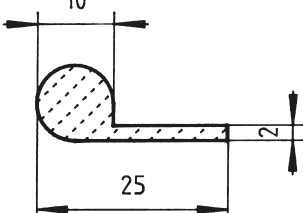
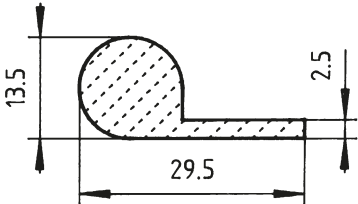
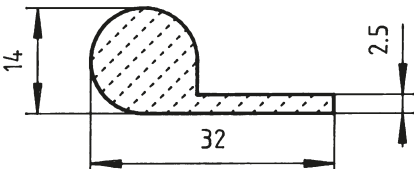
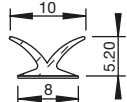
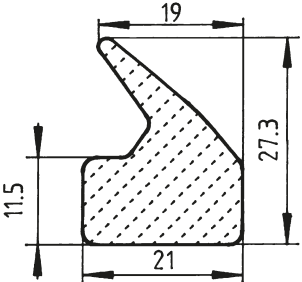
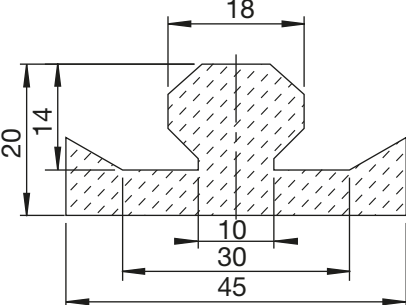
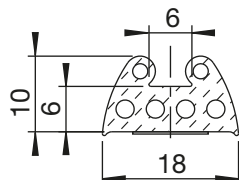
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TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

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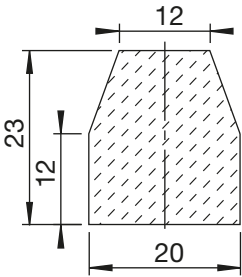
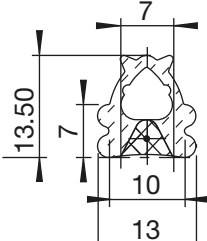
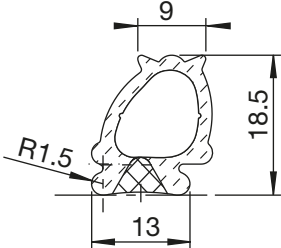
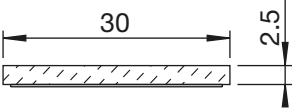
Microcellular rubber sections

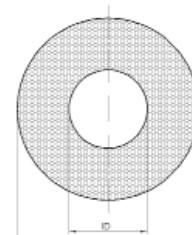
 121 0273 NR, dark	 121 0272 NR, dark	 121 0335 NR, dark
 121 0324 NR, dark	 121 0330 NR, dark	 121 0328 NR, dark
 121 0331 NR, dark	 121 0332 EPDM, black	 121 9849 EPDM, black, self-adhesive on one side
 121 0172 EPDM, black	 121 9850 EPDM, black	 121 9852 EPDM, black self-adhesive on one side

Minimum order quantities on request
* Available from stock, subject to prior sale
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Microcellular rubber sections

 121 9853 EPDM, black	 121 9879 EPDM soft rubber/microcellular rubber, black, fibres reinforcement as expansion protection	 121 9884* EPDM soft rubber/microcellular rubber, black
 121 9891 EPDM, black, self-adhesive		



TECHNOflex nitrile foam tubes available in lengths of 2000 mm

19 mm wall thickness		
	Ø mm inside	Ø mm outside
125 0002	6	44
125 0003	10	48
125 0004	13	51
125 0005	16	54
125 0006	19	57
125 0007	22	60
125 0008	25	63
125 0009	28	66
125 0010	32	70
125 0011	35	73
125 0012	42	80
125 0013	48	86
125 0014	51	89
125 0015	54	92
125 0016	60	98
125 0017	67	105
125 0018	73	111
125 0019	76	114
125 0020	79	117
125 0021	89	127
125 0022	102	140
125 0023	108	146
125 0024	114	152

25 mm wall thickness		
	Ø mm inside	Ø mm outside
125 0025	6	56
125 0026	10	60
125 0027	13	63
125 0028	16	66
125 0029	19	69
125 0030	22	72
125 0031	25	75
125 0032	28	78
125 0033	32	82
125 0034	35	85
125 0035	42	92
125 0036	48	98
125 0037	51	101
125 0038	54	104
125 0039	60	110
125 0040	67	117
125 0041	73	123
125 0042	76	126
125 0043	79	129
125 0044	89	139
125 0045	102	152
125 0046	108	158
125 0047	114	164

32 mm wall thickness		
	Ø mm inside	Ø mm outside
125 0048	6	70
125 0049	10	74
125 0050	13	77
125 0051	16	80
125 0052	19	83
125 0053	22	86
125 0054	25	89
125 0055	28	92
125 0056	32	96
125 0057	35	99
125 0058	42	106
125 0059	48	112
125 0060	51	115
125 0061	54	118
125 0062	60	124
125 0063	67	131
125 0064	73	137
125 0065	76	140
125 0066	79	143
125 0067	89	153
125 0068	102	166
125 0069	108	172
125 0070	114	178

also available in wall thickness of 6, 9 and 13 mm
for all standard copper and other ferritic tubing

with a diameter from 6.4 mm to 100 mm.
Larger sizes available on request.

Minimum order quantities on request



technoprofil
TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

Derken 8
42327 Wuppertal-Vohwinkel

Cellular rubber sections

Application:

Cellular rubber sections are used for sealing, cushioning and insulation.

Cellular rubber sections are preferred for production of rectangular cross-sections. The production of simple geometric shapes is possible. The surface is porous. The structure is composed of closed cells, whereby the absorption of water is low.

Qualities:

Our cellular rubber sections are produced from the synthetic rubber „EPDM“ or alternatively made from natural rubber „NR“. Other elastomers are available according to requirements or on request.

In the standard programme the cellular rubber sections are equipped as self-adhesive on one side. Without fibre reinforcement, the cellular rubber sections are expandable.

The fibre reinforcement in the adhesive surface prevents over-expansion during installation so that precise-fitting sealing surfaces are provided.

Tolerances:

The cross-sections are produced in accordance with DIN 3302-1 E3.

Packaging:

Available in: cut lengths, adhered rings and stamped seals for flat designs.



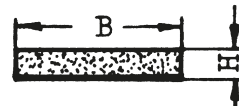
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TP Blau GmbH

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Fax: +49 (0) 2 02 / 27 34 6-60

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Derken 8
42327 Wuppertal-Vohwinkel

**Self-adhesive cellular rubber sections, close-cell, black,
10 m rolls. Measurement tolerances according to DIN 3302-1 E3.**



Dimensions H x W mm	EPDM without fibre reinforcement Item no.	EPDM with fibre reinforcement Item no.
3 x 10	123 0312*	123 0336
4 x 10	123 0316*	123 0340
5 x 10	123 0320*	123 0344
3 x 15	123 0313*	123 0337
4 x 15	123 0317*	123 0341
5 x 15	123 0321*	123 0345
3 x 20	123 0314*	123 0338
4 x 20	123 0318	123 0342
5 x 20	123 0322*	123 0346
3 x 30	123 0315*	123 0339
4 x 30	123 0319	123 0343
5 x 30	123 0323*	123 0347
Dimensions H x W mm	Natural rubber without fibre reinforcement Item no.	Natural rubber with fibre reinforcement Item no.
3 x 10	123 0324	123 0300
4 x 10	123 0328	123 0304
5 x 10	123 0332	123 0308
3 x 15	123 0325	123 0301
4 x 15	123 0329	123 0305
5 x 15	123 0333	123 0309
3 x 20	123 0326	123 0302
4 x 20	123 0330	123 0306
5 x 20	123 0334	123 0310
3 x 30	123 0327*	123 0303
4 x 30	123 0331	123 0307
5 x 30	123 0335	123 0311

Design	Item no.	Technical data
	175 9019	CR, black self-adhesive on the upper and under side



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Derken 8
42327 Wuppertal-Vohwinkel

Plastic- and rubber-mouldings / rubber-metal-elements / damping elements / rubber-metal-rails

made of various materials

Sophisticated technology in labs, testing and manufacture allows us to handle the most diverse customer specifications and drawings.

We make moulded rubber parts using the following methods:

1. Compression moulding (CM)
2. Transfer moulding (TM)
3. Injection moulding (IM + cold channel)

Choosing the most suitable manufacturing technology will ensure a gentle treatment of the material.

Choosing the right tool size saves money.

Large rubber parts can be made using injection-moulding machines with a capacity of up to 2.5 litres (also rubber/metal compounds using common steel grades and stainless).

We can process the following types of rubber:

Natural rubber	(NR)
Styrene-butadiene rubber	(SBR)
Chloroprene (neoprene)	(CR)
Nitrile rubber	(NBR)
Fluorocautchouc	(FCM)
Silicone	(SI)

Our experienced consultants will gladly assist you.
Request our technical support.



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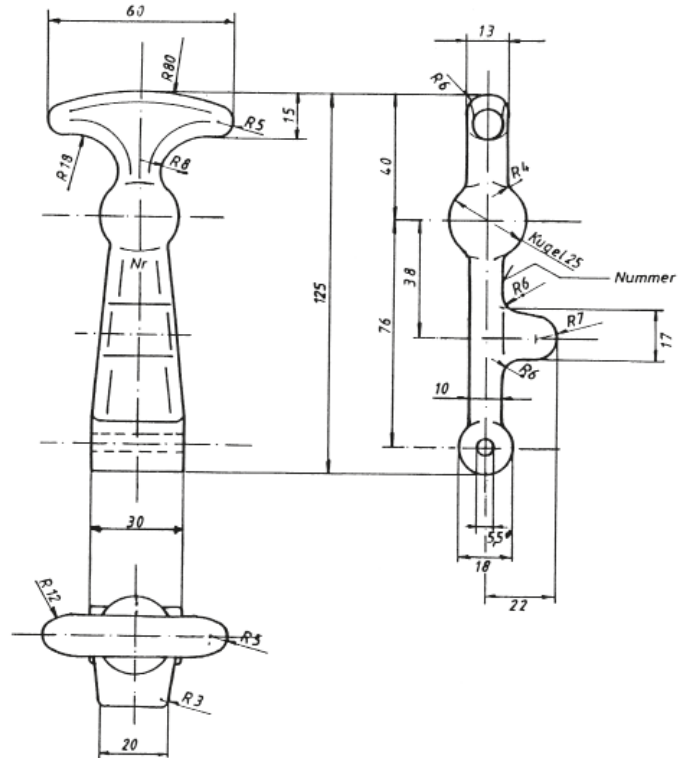
Derken 8
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Crested holders

Item no. 170 9 532: 60 Shore*
Item no. 170 9 533: complete with metal parts*
(hook, foot, pin, splint and disc)
Item no. 170 9 502: 70 Shore
Item no. 170 9 504: complete with metal parts

Metal parts for crested holders

Item no. 402 9 019 Hook*
Item no. 402 9 020 Foot*
Item no. 402 9 018 Pin*
Item no. 402 9 022 Splint*
Item no. 402 9 021 Disc*



Design	Item no.	Material	Colour
Figure scale: 1:3	177 9002	Silicone	black
Figure scale: 1:4	177 9001	Silicone	blue-black

Minimum order quantities on request
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Design	Item no.	Material
Technical drawing of item 175 9107 showing cross-section A-A and top view. Dimensions include 62, 56, $\varnothing 12.20$, 86, 60, 120, 70, and $\varnothing 11$.	175 9107	NR – 10553 / 10570
Technical drawing of item 175 9116 showing cross-section A-A (1:2) and top view. Dimensions include $\varnothing 56$, $\varnothing 12.20$, 76, 50, 120, 70, and $\varnothing 11$.	175 9116	NR – 10553 / 10570

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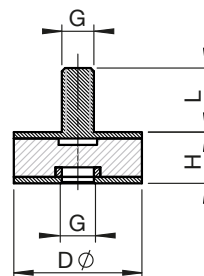
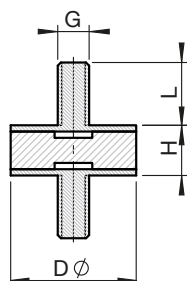
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Derken 8
42327 Wuppertal-Vohwinkel

Rubber / metal buffer



TYPE A				
Item no.	D	H	L	Thread
A 15 08	15	8	13	M 4
A 15 15	15	15	13	M 4
A 20 15	20	15	18	M 6
A 20 20	20	20	18	M 6
A 20 25	20	25	18	M 6
A 25 10	25	10	18	M 6
A 25 15	25	15	18	M 6
A 25 20	25	20	18	M 6
A 25 25	25	25	18	M 6
A 25 30	25	30	18	M 6
A 30 15	30	15	21	M 8
A 30 20	30	20	21	M 8
A 30 25	30	25	21	M 8
A 30 30	30	30	21	M 8
A 30 40	30	40	21	M 8
A 40 20	40	20	23.5	M 8
A 40 30	40	30	23.5	M 8
A 40 40	40	40	23.5	M 8
A 50 20	50	20	28	M 10
A 50 25	50	25	28	M 10
A 50 30	50	30	28	M 10
A 50 40	50	40	28	M 10
A 50 45	50	45	28	M 10
A 50 50	50	50	28	M 10
A 60 30	60	30	26	M 12
A 70 45	70	45	27	M 10
A 75 25	75	25	37	M 12
A 75 40	75	40	37	M 12
A 75 50	75	50	37	M 12
A 75 55	75	55	37	M 12
A 100 40	100	40	41	M 16
A 100 55	100	55	41	M 16
A 100 60	100	60	41	M 16
A 100 75	100	75	41	M 16
A 150 50/M16	150	50	41	M 16
A 150 60	150	60	41	M 16
A 150 75/M16	150	75	41	M 16
A 150 50/M20	150	50	41	M 20
A 150 55	150	55	41	M 20
A 160 60	150	60	41	M 20
A 150 75/M20	150	75	41	M 20
A 200 100	200	100	41	M 20

TYPE B				
Item no.	D	H	L	Thread
B 15 15	15	15	13	M 4
B 20 15	20	15	18	M 6
B 20 20	20	20	18	M 6
B 20 25	20	25	18	M 6
B 25 15	25	15	18	M 6
B 25 20	25	20	18	M 6
B 25 25	25	25	18	M 6
B 25 30	25	30	18	M 6
B 30 15	30	15	21	M 8
B 30 25	30	25	21	M 8
B 30 30	30	30	21	M 8
B 30 40	30	40	21	M 8
B 40 20	40	20	23.5	M 8
B 40 30	40	30	23.5	M 8
B 40 40	40	40	23.5	M 8
B 50 20	50	20	28.0	M 10
B 50 25	50	25	28.0	M 10
B 50 30	50	30	28.0	M 10
B 50 40	50	40	28	M 10
B 50 45	50	45	28	M 10
B 50 50	50	50	28	M 10
B 60 30	60	30	26	M 12
B 70 45	70	45	27	M 10
B 75 40	75	40	37	M 12
B 75 50	75	50	37	M 12
B 75 55	75	55	37	M 12
B 100 40	100	40	41	M 16
B 100 55	100	55	41	M 16
B 100 60	100	60	41	M 16
B 100 75	100	75	41	M 16
B 150 50/M16	150	50	41	M 16
B 150 55/M16	150	55	41	M 16
B 150 60/M16	150	60	41	M 16
B 150 75/M16	150	75	41	M 16
B 150 50/M20	150	50	41	M 20
B 150 55/M20	150	55	41	M 20
B 150 60/M20	150	60	41	M 20
B 150 75/M20	150	75	41	M 20
B 200 100	200	100	41	M 20

Minimum order quantities on request
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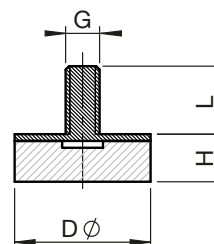
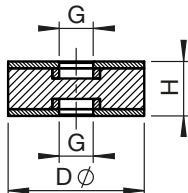
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Derken 8
42327 Wuppertal-Vohwinkel

Rubber/metal buffer



TYPE C			
Item no.	D	H	Thread
C 15 15	15	15	M 4
C 20 20	20	20	M 6
C 20 25	20	25	M 6
C 25 20	25	20	M 6
C 25 25	25	25	M 6
C 25 30	25	30	M 6
C 30 20	30	20	M 8
C 30 25	30	25	M 8
C 30 30	30	30	M 8
C 30 40	30	40	M 8
C 40 30	40	30	M 8
C 40 40	40	40	M 8
C 50 30	50	30	M 10
C 50 40	50	40	M 10
C 50 45	50	45	M 10
C 50 50	50	50	M 10
C 60 30	60	30	M 12
C 70 45	70	45	M 10
C 75 40	75	40	M 12
C 75 50	75	50	M 12
C 75 55	75	55	M 12
C 100 40	100	40	M 16
C 100 55	100	55	M 16
C 100 60	100	60	M 16
C 100 75	100	75	M 16
C 150 50/M16	150	50	M 16
C 150 55/M16	150	55	M 16
C 150 60/M16	150	60	M 16
C 150 75/M16	150	75	M 16
C 150 50/M20	150	50	M 20
C 150 55/M20	150	55	M 20
C 150 60/M20	150	60	M 20
C 150 75/M16	150	75	M 20
C 200 100	200	100	M 20

TYPE D				
Item no.	D	H	L	Thread
D 15 08	15	8	13	M 4
D 15 15	15	15	13	M 4
D 20 11	20	11	18	M 6
D 20 15	20	15	18	M 6
D 20 20	20	20	18	M 6
D 20 23	20	23	18	M 6
D 20 25	20	25	18	M 6
D 25 10	25	10	18	M 6
D 25 15	25	15	18	M 6
D 25 20	25	20	18	M 6
D 25 25	25	25	18	M 6
D 25 30	25	30	18	M 6
D 30 15	30	15	21	M 8
D 30 18	30	18	21	M 8
D 30 20	30	20	21	M 8
D 30 25	30	25	21	M 8
D 30 30	30	30	21	M 8
D 30 40	30	40	21	M 8
D 40 20	40	20	23.5	M 8
D 40 30	40	30	23.5	M 8
D 40 35	40	35	23.5	M 8
D 40 40	40	40	23.5	M 8
D 40 45	40	45	23.5	M 8
D 50 20	50	20	23.5	M 10
D 50 25	50	25	28	M 10
D 50 30	50	30	28	M 10
D 50 40	50	40	28	M 10
D 50 45	50	45	28	M 10
D 50 50	50	50	28	M 10
D 70 45	70	45	27	M 10
D 75 15	75	15	37	M 12
D 75 25	75	25	37	M 12
D 75 40	75	40	37	M 12
D 75 50	75	50	37	M 12
D 75 55	75	55	37	M 12
D 100 20	100	20	41	M 16
D 100 40	100	40	41	M 16
D 100 55	100	55	41	M 16
D 100 60	100	60	41	M 16
D 100 75	100	75	41	M 16
D 150 50/M16	150	50	41	M 16
D 150 55/M16	150	55	41	M 16
D 150 60/M16	150	60	41	M 16
D 150 75/M16	150	75	41	M 16
D 150 50/M20	150	50	41	M 20
D 150 55/M20	150	55	41	M 20
D 150 60/M20	150	60	41	M 20
D 150 75/M20	150	75	41	M 20
D 200 100	200	100	41	M 20

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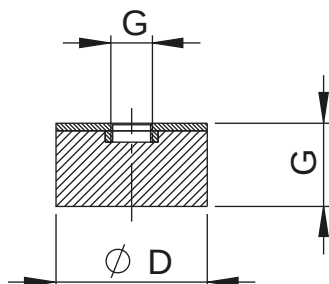
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TP Blau GmbH

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Fax: +49 (0) 2 02 / 27 34 6-60

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Derken 8
42327 Wuppertal-Vohwinkel

Rubber/metal buffer



TYPE E			
Item no.	D	H	Thread
E 15 08	15	8	M 4
E 15 15	15	15	M 4
E 20 11	20	11	M 6
E 20 15	20	15	M 6
E 20 20	20	20	M 6
E 20 23	20	23	M 6
E 20 25	20	25	M 6
E 25 10	25	10	M 6
E 25 15	25	15	M 6
E 25 20	25	20	M 6
E 25 25	25	25	M 6
E 25 30	25	30	M 6
E 30 15	30	15	M 8
E 30 18	30	18	M 8
E 30 20	30	20	M 8
E 30 25	30	25	M 8
E 30 30	30	30	M 8
E 30 40	30	40	M 8
E 40 20	40	20	M 8
E 40 30	40	30	M 8
E 40 35	40	35	M 8
E 40 40	40	40	M 8
E 40 45	40	45	M 8
E 50 20	50	20	M 10
E 50 25	50	25	M 10
E 50 30	50	30	M 10
E 50 40	50	40	M 10
E 50 45	50	45	M 10
E 50 50	50	50	M 10
E 70 45	70	45	M 12
E 75 25	75	25	M 12
E 75 40	75	40	M 12
E 75 50	75	50	M 12
E 75 55	75	55	M 12
E 100 40	100	40	M 16
E 100 50	100	50	M 16
E 100 55	100	55	M 16
E 100 60	100	60	M 16
E 100 75	100	75	M 16
E 150 50/M16	150	50	M 16
E 150 55/M16	150	55	M 16
E 150 60/M16	150	60	M 16
E 150 75/M16	150	75	M 16
E 150 50/M20	150	50	M 20
E 150 55/M20	150	55	M 20
E 150 60/M20	150	60	M 20
E 175 75/M20	150	75	M 20
E 200 100	200	100	M 20

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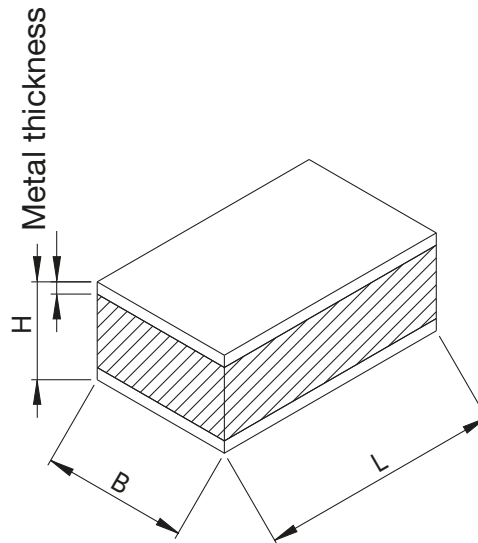
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Derken 8
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Rubber/metal rails



W	H	Length	S	S
20	30	2,000	5	10
25	25	2,000	5	10
25	30	2,000	5	10
30	20	2,000	5	10
30	25	2,000	5	10
30	30	2,000	5	10
40	20	2,000	5	10
40	25	2,000	5	10
40	30	2,000	5	10
40	35	2,000	5	10
40	40	2,000	5	10
40	45	2,000	5	10
50	30	2,000	5	10
50	35	2,000	5	10
50	40	2,000	5	10
50	45	2,000	5	10
50	50	2,000	5	10
50	55	2,000	5	10
50	60	2,000	5	10
50	70	2,000	5	10
60	30	2,000	5	10
60	35	2,000	5	10
60	40	2,000	5	10
60	50	2,000	5	10
60	60	2,000	5	10
60	70	2,000	5	10
60	80	2,000	5	10
70	30	2,000	5	10
70	35	2,000	5	10
70	40	2,000	5	10
70	45	2,000	5	10
70	50	2,000	5	10
70	55	2,000	5	10

W	H	Length	S	S
70	60	2,000	5	10
70	70	2,000	5	10
70	80	2,000	5	10
80	40	2,000	5	10
80	45	2,000	5	10
80	50	2,000	5	10
80	60	2,000	5	10
80	70	2,000	5	10
80	80	2,000	5	10
90	45	2,000	5	10
100	40	2,000	10	15
100	45	2,000	10	15
100	50	2,000	10	15
100	55	2,000	10	15
100	60	2,000	10	15
100	65	2,000	10	15
100	70	2,000	10	15
100	90	2,000	10	15
100	100	2,000	10	15
120	45	2,000	10	15
120	50	2,000	10	15
120	60	2,000	10	15
120	70	2,000	10	15
120	80	2,000	10	15
150	50	2,000	10	15
150	60	2,000	10	15
150	70	2,000	10	15
150	80	2,000	10	15
150	90	2,000	10	15
150	100	2,000	10	15
200	60	2,000	10	15
200	80	2,000	10	15
200	100	2,000	10	15

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Derken 8
42327 Wuppertal-Vohwinkel

Elastomer sections / special sections / plastic sections

made of PVC, TPE, EPDM, CR, SBR, etc.

Application:

Covering sections, retaining sections, underlay sections, door sealing sections (e.g. for switch cabinets), buffer sections, joint sealing sections, hinge sections, decorative fillers, frame sections

Qualities:

Rubber, plastic, silicone, etc., precise material specification on request

Tolerance:

DIN 7715 E 2 (rubber), DIN 16941 (PVC), length tolerance for cut lengths on request

Packaging:

Cut lengths, adhered or vulcanised frame or ring

Custom designs:

If the cross-sections illustrated here do not suit your requirements, the appropriate section can be custom-designed for you.

We would be happy to advise you and draw up a suitable design for your needs.

On request we can add flocking to rubber sections.



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Retaining sections

Design	Item no.	Technical data
	100 0000*	EPDM 65 Shore A black
	100 0300*	EPDM 65 Shore A black
	100 0800*	EPDM 65 Shore A black
	100 0410*	EPDM 65 Shore A black
	100 0610*	EPDM 65 Shore A black
	100 0810	EPDM 65 Shore A black

All sections are shown in 1:1 scale.
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Derken 8
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Retaining sections

Design	Item no.	Technical data
	100 0020*	EPDM 65 Shore A black
	100 0100*	EPDM 65 Shore A black
	100 0400*	EPDM 75 Shore A black
	100 9087*	EPDM 65 Shore A black
	100 0230*	EPDM 75 Shore A black
	100 9101	EPDM 65-70 Shore A black

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Retaining sections

Design	Item no.	Technical data
	100 0260	EPDM 80 Shore A black
	100 9095	EPDM 65 Shore A black
	100 9096	EPDM 65 Shore A black
	100 9107	EPDM 70 Shore A black
	100 9088	EPDM 65 Shore A black

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Retaining sections

Design	Item no.	Technical data
	100 9089	EPDM 60 Shore A black
	100 9091	EPDM 55 Shore A black
	100 9092	EPDM 55 Shore A black
	100 9081	NR 70 Shore A black
	100 9109	EPDM 65 Shore A black
	102 9081	EPDM with flock 60 Shore A black

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Door sealing sections

	Item no.	H	h	W	Sales unit m	Number of hollow chambers	Material	Colour
	103 9351	16.7	9.5	8.5	20	1	EPDM	black
	103 0571*	17	9.5	11	20	1	Technolast	black
	103 0271*	19.5	11.5	11	20	1	Technolast	black
	103 9270	19.5	11.5	11	20	1	EPDM	black
	103 9373	21	13.5	11	20	2	EPDM	black
	103 0671*	21.5	13.5	11	20	2	EPDM	black
	103 0771*	27.5	19.5	11	20	3	Technolast	black

Elastomer custom sections

Design	Item no.	Technical data
	103 9603	EPDM blue 55 Shore A
	103 9343	EPDM 60 Shore A black
	103 9044	CR 55 Shore A black

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Derken 8
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Elastomer custom sections

Design	Item no.	Technical data
	103 9350	EPDM 25 / 60 Shore A black
	103 9363	EPDM 70 Shore A black
	103 9329	EPDM 70 Shore A black
	103 9361	EPDM 60 Shore A black
	103 9400	EPDM 55 Shore A black

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Elastomer custom sections

Design	Item no.	Technical data
	103 9388	EPDM 55 Shore A black
	103 9657	EPDM 65 Shore A black
	103 9637	EPDM soft rubber 60 Shore A black with sliding lacquer
	103 9698	EPDM soft rubber / EPDM microcellular rubber 60 / 20 Shore A blue-black
	121 9883	EPDM soft rubber / EPDM microcellular rubber 65 / 20 Shore A black Fibre as expansion protection
	103 9277	CR 65 Shore A black

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Elastomer custom sections

Design	Item no.	Technical data
	103 9374	EPDM 25 / 65 Shore A black
	103 9486	EPDM 70 Shore A black
	103 9150	CR soft rubber / CR microcellular rubber 60 / 20 Shore A black
	103 9415	EPDM 25 / 60 Shore A black
	103 9154	EPDM soft rubber / EPDM microcellular rubber 65 / 25 Shore A black

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Elastomer custom sections

Design	Item no.	Technical data
	103 9337	EPDM 55 / 85 Shore A black
	103 9529*	EPDM soft rubber / EPDM microcellular rubber self-adhesive
	103 9490 103 9660	EPDM soft rubber / EPDM microcellular rubber 55 / 25 Shore A EPDM soft rubber / EPDM microcellular rubber 55 / 25 Shore A self-adhesive, equipped with 3M film type ST 1200
	103 9505	EPDM soft rubber / EPDM microcellular rubber 55 / 25 Shore A
	103 9419	EPDM 55 Shore A black

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Derken 8
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Elastomer custom sections

Design	Item no.	Technical data
	103 9412	EPDM 65 Shore A black
	103 9408	EPDM 65 Shore A black
	103 9456	EPDM 85 Shore A black
	103 9230	EPDM 85 Shore A black
	103 9407	EPDM 25 / 60 Shore A black

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Elastomer custom sections

Design	Item no.	Technical data
	103 9471	EPDM 25 / 60 Shore A black
	103 9481	EPDM 60 Shore A black
	103 9447	EPDM 90 Shore A black
	103 9275	EPDM 45 Shore A black
	103 9394	EPDM 65 Shore A black

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Elastomer custom sections

Design	Item no.	Technical data
	103 9597	EPDM 70 Shore A black
	103 9423	EPDM 70 Shore A black
	103 9422	EPDM 70 Shore A black

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Elastomer custom sections

Design	Item no.	Technical data
	103 9364	EPDM 80 Shore A black
	103 9366	EPDM 55 / 70 Shore A black
	103 9365	EPDM 55 / 70 Shore A black
	103 9613*	NBR/SBR 65 Shore A black self-adhesive on one side
	103 9387	EPDM soft rubber / EPDM microcellular rubber 20 / 75 Shore A black

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Derken 8
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Elastomer custom sections

Design	Item no.	Technical data
	103 9479	EPDM soft rubber / EPDM microcellular rubber 90 / 20-25 Shore A black
	103 9037	EPDM 60 Shore A black
	103 9041	CR 55 Shore A grey

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Derken 8
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Elastomer custom sections

Design	Item no.	Technical data
	103 9358	EPDM 65 Shore A black
	103 9390	EPDM 65 Shore A black

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Derken 8
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Elastomer custom sections

Design	Item no.	Technical data
	103 9653	SBR 75 Shore A black
	103 9480	EPDM 80 Shore A black

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Elastomer sections / special sections / plastic sections



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Silicone custom sections

Design	Item no.	Technical data
	105 9010	Silicone foam white self-adhesive on one side
	105 9011	Silicone 35-40 Shore A transparent
	105 9009	Silicone 60-65 Shore A black
	105 9012	Silicone 60-65 Shore A black
	105 9003	Silicone 55 Shore A black
	105 9005	Silicone foam 15-20 Shore A black

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Silicone custom sections

Design	Item no.	Technical data
	105 9006	Silicone and silicone foam 55 / 15-20 Shore A black
	105 9008	Silicone 40-45 Shore A black
	105 9004	Silicone 55 Shore A black
	105 9007	Silicone 80 Shore A black
	105 9002	Silicone 55-65 Shore A black

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web: www.technoprofil.com

Derken 8
42327 Wuppertal-Vohwinkel

Plastic custom sections

Design	Item no.	Technical data
	141 9073	Hard PVC red
	142 9078	TPE 85 Shore A grey
	141 9055	Hard PVC 55 Shore A black
	141 9048	Hard PVC black
	141 9066	Hard PVC black

All sections are shown in 1:1 scale.
Design modifications reserved.

Minimum order quantities on request
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Derken 8
42327 Wuppertal-Vohwinkel

Plastic custom sections

Design	Item no.	Technical data
	141 9072	Hard PVC / Elastogran black
	141 9105	Soft PVC Hard PVC grey
	141 9047	Hard PVC anthracite

All sections are shown in 1:1 scale.
Design modifications reserved.

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Derken 8
42327 Wuppertal-Vohwinkel

Plastic custom sections

Design	Item no.	Technical data
	141 9013	Hard PVC black
	141 9077	Hard PVC black
	142 9059	Technoprene (PP) 64 Shore A grey
	142 9022	Soft PVC 85-90 Shore A white



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Derken 8
42327 Wuppertal-Vohwinkel

Plastic custom sections

Design	Item no.	Technical data
	142 9064	Soft PVC 70 Shore A light grey
	141 9078	PVC 85 Shore A silver grey
	142 9051	PVC 65 Shore A grey
	142 9061	Soft PVC 70 Shore A grey



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Derken 8
42327 Wuppertal-Vohwinkel

Plastic custom sections

Design	Item no.	Technical data
	142 9081	Soft PVC 80 Shore A grey
	142 9079	PP, TPE black
	144 9141*	PP/EPDM black 60 Shore A self-adhesive
	144 9116*	TPE 65 Shore A black



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Derken 8
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Plastic custom sections

Design	Item no.	Technical data
	144 9142	TPE 70 Shore A black Clamping range: 12.0–14.0 mm
	144 9119	TPE 96/55 Shore A black
	144 9129	ABS, TPE, PU, W-PVC dark grey

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Design modifications reserved.

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Derken 8
42327 Wuppertal-Vohwinkel

Window gaskets

Application:

Since places where moving panes made of glass or plastic must be moved with low friction and a tight seal, window gaskets can be installed in the widest range of cross-sections.

Qualities:

The window gaskets are primarily produced in the synthetic rubber „EPDM“ and flocked in accordance with requirements on certain friction surfaces. The window gaskets are produced with and without steel insert.

Tolerances:

DIN 7715 E2, length tolerances for cut lengths on request.

Packaging:

Cut lengths, adhered or vulcanised rings or frame.

Custom designs:

If the cross-sections illustrated here do not suit your requirements, the appropriate section can be custom-designed for you.



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Derken 8
42327 Wuppertal-Vohwinkel

Window gaskets with embedded metal strips, with flock coating

Design	Item no.	Technical data
	162 9079*	EPDM soft rubber black Metal clamping strip Sales unit: 50 m
	162 9100	EPDM soft rubber black Steel clamping strip Sales unit: 50 m
	162 9101	EPDM soft rubber black Steel clamping strip Sales unit: 40 m
	162 9102	EPDM soft rubber black Steel clamping strip Sales unit: 125 m
	162 9103	EPDM soft rubber black Steel clamping strip Sales unit: 150 m

All sections are shown in 1:1 scale.

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Derken 8
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Window gaskets with embedded metal strips, with flock coating

Design	Item no.	Technical data
	162 9104	EPDM soft rubber black Steel clamping strip Sales unit: 125 m
	162 9105	EPDM soft rubber black Steel clamping strip Sales unit: 5 m
	162 9106	EPDM soft rubber black Steel clamping strip Sales unit: 100 m
	162 9107	EPDM soft rubber black Steel clamping strip Sales unit: 50 m

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Derken 8
42327 Wuppertal-Vohwinkel

Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9081	Q-Lon black Sales unit: 1,000 m
	162 9095*	EPDM soft rubber black Sales unit: 50 m
	162 9108	EPDM soft rubber black Sales unit: 100 m
	162 9109	EPDM soft rubber black Sales unit: 100 m
	162 9110	EPDM soft rubber black Sales unit: 100 m
	162 9111	EPDM soft rubber black Sales unit: 100 m
	162 9112	EPDM soft rubber black Sales unit: 100 m

All sections are shown in 1:1 scale.

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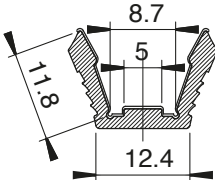
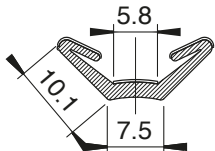
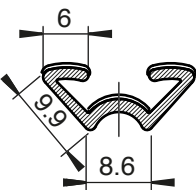
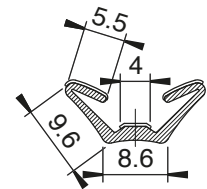
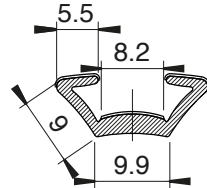
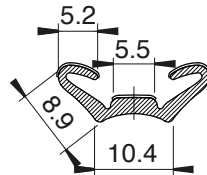
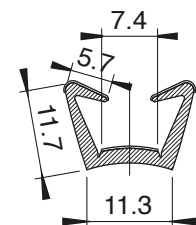
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Derken 8
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Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9113	EPDM soft rubber black Sales unit: 100 m
	162 9114	EPDM soft rubber black Sales unit: 100 m
	162 9115	EPDM soft rubber black Sales unit: 100 m
	162 9116	EPDM soft rubber black Sales unit: 200 m
	162 9117	EPDM soft rubber black Sales unit: 100 m
	162 9118	EPDM soft rubber black Sales unit: 100 m
	162 9119	EPDM soft rubber black Sales unit: 100 m

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Derken 8
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Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9120	EPDM soft rubber black Sales unit: 100 m
	162 9121	EPDM soft rubber black Sales unit: 80 m
	162 9122	EPDM soft rubber black Sales unit: 100 m
	162 9123	EPDM soft rubber black Sales unit: 100 m
	162 9124	EPDM soft rubber black Sales unit: 100 m
	162 9125	EPDM soft rubber black Sales unit: 100 m
	162 9126	EPDM soft rubber black Sales unit: 100 m

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Derken 8
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Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9127	EPDM soft rubber black Sales unit: 50 m
	162 9128	EPDM soft rubber black Sales unit: 100 m
	162 9129	EPDM soft rubber black Sales unit: 100 m
	162 9130	EPDM soft rubber black Sales unit: 100 m
	162 9131	EPDM soft rubber black Sales unit: 100 m
	162 9132	EPDM soft rubber black Sales unit: 50 m
	162 9133	EPDM soft rubber black Sales unit: 100 m

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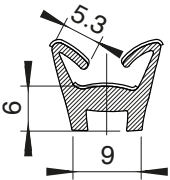
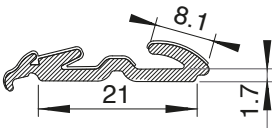
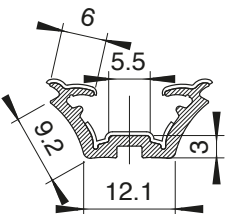
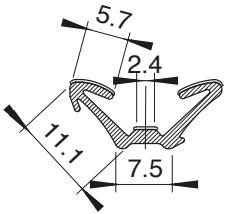
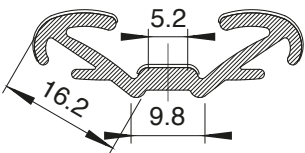
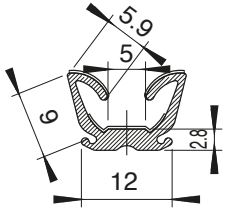
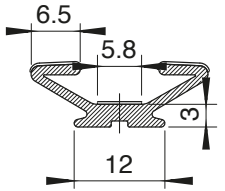
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Derken 8
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Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9134	EPDM soft rubber black Sales unit: 100 m
	162 9135	EPDM soft rubber black Sales unit: 100 m
	162 9136	EPDM soft rubber black Sales unit: 100 m
	162 9137	EPDM soft rubber black Sales unit: 100 m
	162 9138	EPDM soft rubber black Sales unit: 50 m
	162 9139	EPDM soft rubber black Sales unit: 50 m
	162 9140	EPDM soft rubber black Sales unit: 100 m

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Derken 8
42327 Wuppertal-Vohwinkel

Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9141	EPDM soft rubber black Sales unit: 50 m
	162 9142	EPDM soft rubber black Sales unit: 100 m
	162 9143	EPDM soft rubber black Sales unit: 100 m
	162 9144	EPDM soft rubber black Sales unit: 50 m
	162 9145	EPDM soft rubber black Sales unit: 100 m
	162 9146	EPDM soft rubber black Sales unit: 100 m
	162 9147	EPDM soft rubber black Sales unit: 100 m

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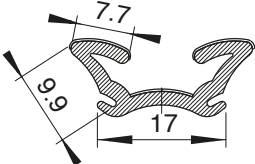
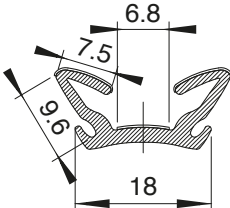
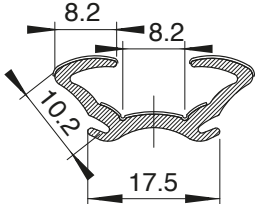
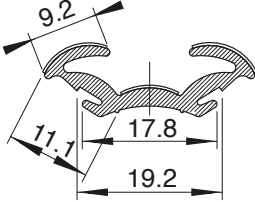
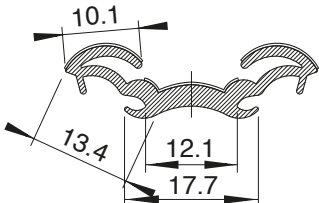
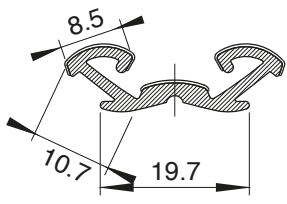
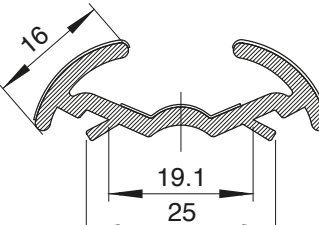
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Derken 8

42327 Wuppertal-Vohwinkel

Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9148	EPDM soft rubber black Sales unit: 100 m
	162 9149	EPDM soft rubber black Sales unit: 100 m
	162 9150	EPDM soft rubber black Sales unit: 50 m
	162 9151	EPDM soft rubber black Sales unit: 100 m
	162 9152	EPDM soft rubber black Sales unit: 50 m
	162 9153	EPDM soft rubber black Sales unit: 50 m
	162 954	EPDM soft rubber black Sales unit: 50 m

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Derken 8

42327 Wuppertal-Vohwinkel

Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9155	EPDM soft rubber black Sales unit: 50 m
	162 9156	EPDM soft rubber black Sales unit: 100 m
	162 9157	EPDM soft rubber black Sales unit: 50 m
	162 9158	EPDM soft rubber black Sales unit: 50 m
	162 9159	EPDM soft rubber black Sales unit: 50 m
	162 9160	EPDM soft rubber black Sales unit: 100 m
	162 9161	EPDM soft rubber black Sales unit: 50 m

All sections are shown in 1:1 scale.

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Derken 8
42327 Wuppertal-Vohwinkel

Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9162	EPDM soft rubber black Sales unit: 50 m
	162 9163	EPDM soft rubber black Sales unit: 50 m
	162 9164	EPDM soft rubber black Sales unit: 50 m
	162 9165	EPDM soft rubber black Sales unit: 50 m
	162 9166	EPDM soft rubber black Sales unit: 100 m
	162 9167	EPDM soft rubber black Sales unit: 100 m
	162 9168	EPDM soft rubber black Sales unit: 200 m

All sections are shown in 1:1 scale.

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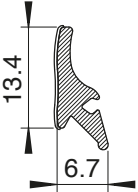
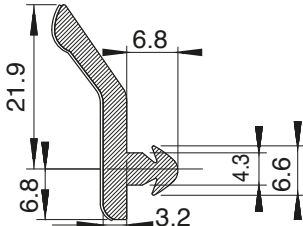
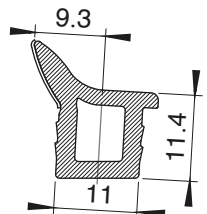
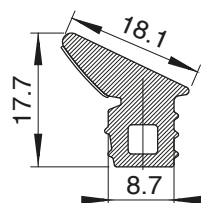
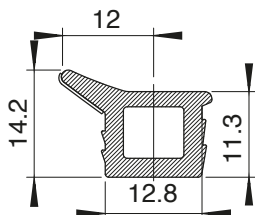
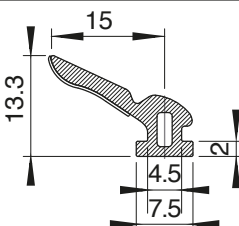
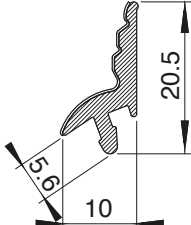
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Derken 8
42327 Wuppertal-Vohwinkel

Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9169	EPDM soft rubber black Sales unit: 100 m
	162 9170	EPDM soft rubber black Sales unit: 50 m
	162 9171	EPDM soft rubber black Sales unit: 100 m
	162 9172	EPDM soft rubber black Sales unit: 100 m
	162 9173	EPDM soft rubber black Sales unit: 100 m
	162 9174	EPDM soft rubber black Sales unit: 200 m
	162 9175	EPDM soft rubber black Sales unit: 100 m

All sections are shown in 1:1 scale.

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Derken 8
42327 Wuppertal-Vohwinkel

Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9176	EPDM soft rubber black Sales unit: 100 m
	162 9177	EPDM soft rubber black Sales unit: 100 m
	162 9178	EPDM soft rubber black Sales unit: 50 m
	162 9179	EPDM soft rubber black Sales unit: 100 m
	162 9180	EPDM soft rubber black Sales unit: 100 m
	162 9181	EPDM soft rubber black Sales unit: 100 m
	162 9182	EPDM soft rubber black Sales unit: 200 m

All sections are shown in 1:1 scale.

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Derken 8
42327 Wuppertal-Vohwinkel

Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9183	EPDM soft rubber black Sales unit: 80 m
	162 9184	EPDM soft rubber black Sales unit: 100 m
	162 9185	EPDM soft rubber black Sales unit: 25 m
	162 9186	EPDM soft rubber black Sales unit: 25 m
	162 9187	EPDM soft rubber black Sales unit: 25 m
	162 9188	EPDM soft rubber black Sales unit: 50 m
	162 9189	EPDM soft rubber black Sales unit: 50 m

All sections are shown in 1:1 scale.

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Derken 8
42327 Wuppertal-Vohwinkel

Window gaskets, with flock coating

Design	Item no.	Technical data
	162 9190	EPDM soft rubber black Sales unit: 100 m
	162 9191	EPDM soft rubber black Sales unit: 50 m
	162 9192	EPDM soft rubber black Sales unit: 50 m
	162 9193	EPDM soft rubber black Sales unit: 125 m
	162 9194	EPDM soft rubber black Sales unit: 50 m
	162 9196	EPDM soft rubber black Sales unit: 100 m

All sections are shown in 1:1 scale.

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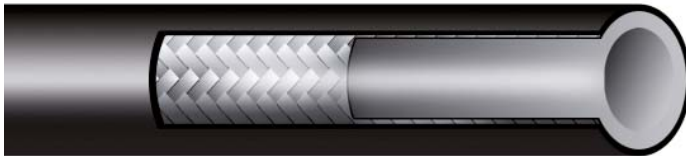
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Derken 8
42327 Wuppertal-Vohwinkel

FUEL HOSE WITH TEXTILE BRAID INLAY TYPE 2A



Specifications corresponding to DIN 73379 1 Type 2A

Composition:

Inner coating: Synthetic NBR
(Nitrile Butadiene Rubber)
Reinforcement: Textile braid inlay
Outer coating: Synthetic CR rubber
(Chloroprene Rubber)

Characteristics:

Operating temperature: -40 °C to +90 °C
Short-term up to: +110 °C
Oil and acid resistant elastomer outer coating for protection against abrasion, ozone and weather influences

Areas of application:

Super fuels, diesels, refrigerants (glycol, glysantine, etc.), oil, water-based solutions without oxidising materials
For automotive, industrial and replacement requirements
Low-pressure hose

Font:

DIN 73379-1 ID/OD-2A>NBR/CR<

Notes:

Additional sizes available on request

Item no.:	Inside Ø	Inside Ø	Outside Ø	Wall thickness	Bend radius	Operating pressure	Burst pressure
	(mm)	(inch)	(mm)	(mm)	(mm)	(psi / bar)	(psi / bar)
700 0050	3.5	1/8"	7.5	2.0	45	145 psi / 10 bar	435 psi / 30 bar
700 0051	4.0	5/32"	10.0	3.0	50	145 psi / 10 bar	435 psi / 30 bar
700 0052	4.5	3/16"	10.5	3.0	50	145 psi / 10 bar	435 psi / 30 bar
700 0053	5.0	3/16"	11.0	3.0	55	145 psi / 10 bar	435 psi / 30 bar
700 0054	5.5		10.5			145 psi / 10 bar	435 psi / 30 bar
700 0055	6.0	1/4"	12.0	3.0	70	145 psi / 10 bar	435 psi / 30 bar
700 0056	7.3	9/32"	13.3	3.0	70	145 psi / 10 bar	435 psi / 30 bar
700 0057	7.5	19/64"	13.5	3.0	70	145 psi / 10 bar	435 psi / 30 bar
700 0058	8.0	5/16"	14.0	3.0	80	145 psi / 10 bar	435 psi / 30 bar
700 0059	9.3	23/64"	15.3	3.0	80	145 psi / 10 bar	435 psi / 30 bar
700 0060	10.0	3/8"	17	3.5	80	145 psi / 10 bar	435 psi / 30 bar



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TP Blau GmbH

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Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
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Derken 8
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FUEL HOSE WITH TEXTILE BRAID INLAY TYPE B



Specifications corresponding to DIN 73379 1 Type B

Composition:

Inner coating: Synthetic NBR
(Nitrile Butadiene Rubber)

Characteristics:

Operating temperature: -40 °C to +90 °C
Short-term up to: +110 °C

Areas of application:

For fuels in vehicles: petrol, diesel
Mineral oil and glycol based liquids, lubricants
For automotive, industrial and replacement requirements

Font:

DIN 73379 TYPE B ID/OD

Notes:

Additional sizes available on request

Item no.:	Inside Ø	Inside Ø	Outside Ø	Wall thickness	Bend radius	Operating pressure	Burst pressure
	(mm)	(inch)	(mm)	(mm)	(mm)	(psi / bar)	(psi / bar)
700 0000	3.2	1/8"	7.0	1.9	40	145 psi / 10 bar	435 psi / 30 bar
700 0001	3.5	1/8"	7.5	2.0	45	145 psi / 10 bar	435 psi / 30 bar
700 0002	4.5	3/16"	9.5	2.5	50	145 psi / 10 bar	435 psi / 30 bar
700 0003	5.0	3/16"	10.0	2.5	50	145 psi / 10 bar	435 psi / 30 bar
700 0004	5.5	7/32"	10.5	2.5	50	145 psi / 10 bar	435 psi / 30 bar
700 0005	7.5	19/64"	12.5	2.5	65	145 psi / 10 bar	435 psi / 30 bar
700 0006	8.0	5/16"	13.0	2.5	65	145 psi / 10 bar	435 psi / 30 bar
700 0007	9.0	23/64"	14.0	2.5	65	145 psi / 10 bar	435 psi / 30 bar
700 0008	10.0	3/8"	15.0	2.5	75	145 psi / 10 bar	435 psi / 30 bar
700 0009	12.0	1/2"	18.0	3	95	145 psi / 10 bar	435 psi / 30 bar



Industrial flooring

Many accidents in the home, on the job and in the workshop take place as a result of slipping or falling. A significant share of these accidents is based, in addition to footwear, on insufficient slip prevention of the flooring, of shelves or other storage surfaces. Rubber flooring effectively prevents slipping and rolling of objects. Prevents the risk of stumbling and falling.

Area of application:

Shelves, drawers, work surfaces, machine work stations, car boots, loading surfaces, insulation, step protection, ladder and stair surfaces.

Fabric textured underside, slip-proof, easy to adhere and easy to cut.

Available with self-adhesive film applied to one side for easy installation.

Can be cut or packaged according to customer specifications on request.

Packaging:

Also available in cut sections.

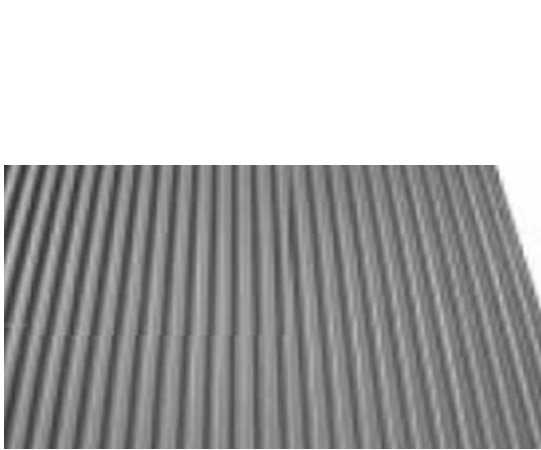
Insulating runner:

The fine groove and hammer strike profiles, as well as the smooth surface are also available as insulating mats in the quality NR/SBR, blue grey, Semperit A601 g, dielectric strength up to 50,000 volt according to VDE 0303.

Diamond profile NR/SBR

Item no.	Description	
180 0000	Diamond profile NR/SBR, 65 ± 5 Shore A, Thickness 3 mm, width = 1,200 mm, black Roll length = 10 m	

Fine groove NR/SBR

Item no.	Description	
180 0002	Fine groove NR/SBR, 65 ± 5 Shore A, Thickness 3 mm, width = 1000 mm, black Roll length = 10 m	
180 0003	Fine groove NR/SBR, 65 ± 5 Shore A, Thickness 4 mm, width = 1000 mm, black Roll length = 10 m	
180 0004	Fine groove NR/SBR, 65 ± 5 Shore A, Thickness 3 mm, width = 1200 mm, grey Roll length = 10 m	
180 0005	Fine groove NR/SBR, 65 ± 5 Shore A, Thickness 4 mm, width = 1200 mm, grey Roll length = 10 m	
180 0006	Fine groove NR/SBR, 65 ± 5 Shore A, Thickness 3 mm, width = 1400 mm, white Roll length = 10 m	
180 0007	Fine groove NR/SBR, 65 ± 5 Shore A, Thickness 4 mm, width = 1400 mm, white Roll length = 10 m	



Wide groove NR/SBR – Standard

Item no.	Description	
180 0020	Wide groove standard, NR/SBR, 65 ± 5 Shore A, Thickness 3 mm, width = 1000 mm, black Roll length = 10 m	
180 0021	Wide groove standard, NR/SBR, 65 ± 5 Shore A, Thickness 4 mm, width = 1000 mm, black Roll length = 10 m	
180 0022	Wide groove standard, NR/SBR, 65 ± 5 Shore A, Thickness 3 mm, width = 1200 mm, black Roll length = 10 m	
180 0023	Wide groove standard, NR/SBR, 65 ± 5 Shore A, Thickness 4 mm, width = 1200 mm, black Roll length = 10 m	

Wide groove NR/SBR – Premium

Item no.	Description	
180 0024	Wide groove premium, NR/SBR, 65 ± 5 Shore A, Thickness 3 mm, width = 1000 mm, black Roll length = 10 m	
180 0025	Wide groove premium, NR/SBR, 65 ± 5 Shore A, Thickness 4 mm, width = 1000 mm, black Roll length = 10 m	
180 0026	Wide groove premium, NR/SBR, 65 ± 5 Shore A, Thickness 3 mm, width = 1200 mm, black Roll length = 10 m	
180 0027	Wide groove premium, NR/SBR, 65 ± 5 Shore A, Thickness 4 mm, width = 1200 mm, black Roll length = 10 m	
180 0028	Wide groove premium, NR/SBR, 65 ± 5 Shore A, Thickness 3 mm, width = 1200 mm, grey Roll length = 10 m	
180 0029	Wide groove premium, NR/SBR, 65 ± 5 Shore A, Thickness 4 mm, width = 1200 mm, grey Roll length = 10 m	

Block profile NR/SBR

Item no.	Description	
180 0040	Block profile NR/SBR, 65 ± 5 Shore A, Thickness 8 mm, width = 1000 mm, black Roll length = 10 m	
180 0041	Block profile NR/SBR, 65 ± 5 Shore A, Thickness 8 mm, width = 1200 mm, black Roll length = 10 m	



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Circular studded surface NR/SBR

Item no.	Description	
180 0042	Circular studded surface NR/SBR, 65 ± 5 Shore A, Thickness 4.5 mm, width = 1000 mm, black Roll length = 10 m	
180 0043	Circular studded surface NR/SBR, 65 ± 5 Shore A, Thickness 4.5 mm, width = 1200 mm, black Roll length = 10 m	



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Tools and accessories

	Item no.	Description	Application	PU
	110 0001*	TECHNO universal mitre cutter with plastic handles 	With 45° stops. They are indispensable wherever strips or sections of rubber or plastic must be cut at an angle or straight. Suitable for mitre cuts in end strip sections, wood or decorative moulding, rubber and plastic strips, etc. Length 21 cm – Weight 335 g	1
	110 0011*	Spare blade in the blister pack		1
	110 0106*	Spare catch plate	With 45° stops	1
	110 0100*	Complete tool in transparent case	Consisting of: – 1 tool 110 0101 made of G AlMg, unfinished, incl. interchangeable guide eyelet 110 0103 (made of hardened steel wire, raw) – 1 tool 110 0102 made of wood, painted/chrome-vanadium steel, unfinished for pain installation in glazing sections – 1 Allen key DIN 911 made of heat-treated steel, raw, for the loosening and tightening of all guide eyes – 1 tool case, crystal clear PVC – 1 assembly manual	1
	110 0101*	Tool for filler installation	With interchangeable guide eyes 110 0103 and Allen key (material G AlMg unfinished/hardened steel wire, raw, and heat-treated steel, raw Handle length 125 mm	1
	110 0102*	Tool for pane installation in glazing sections	Pin: chrome-vanadium steel Handle: wood, lacquered	1
	110 0103*	Guide eyes	For filler sections: 104 0200, 146 0920, 146 0030, 146 0130, 146 0230, 146 0640	10
	110 0104*	Guide eyes	For filler sections: 104 0100, 146 0520, 146 0620, 146 0820	10
	110 0105	Guide eyes	For filler sections: 104 0000, 146 0420	10
	110 0107	Guide eyes	For filler section: 146 9010	10



Tools and accessories

	Item no.	Description	Application	PU
	110 0108	Liquid-saving moistener	For the safe and economical moistening of cloths and cleaning paper with solvents. With built-in flame guard. By pressing down the dosing plate the cleanser is pumped into the plate and the cleaning cloth placed on top of it is moistened. Any cleanser which is not removed flows back into the storage container. The built-in flame guard in the dosing plate prevents the penetration of flames and reduces the development of vapours.	1

Pneumatic hammers

The pneumatic hammer offers the production, processing and installation industry an alternative to laborious hammering by hand.

The hammering is begun by lightly pressing the unit on the surface to be processed and is stopped by simply lifting the hammer. There is no extra ON/OFF switch. The pneumatic hammer delivers over 1000 strikes per minute! The pneumatic hammer has interchangeable hammer tips to handle soft woods and plastics or even hard metals like steel. The can be held in the palm of your hand and only weight 907 grams. A new casting process has reinforced the housing and the cap. This new process in combination with the heat-treated, powder-coated finish produces a high-quality, durable tool.

* Additional pneumatic tools, such as pneumatic plate cladding tools for the manufacture of partitioning wall manufacturers or office renovators, etc. or the pneumatic handheld nailer are available on request.

	111 0000*	Pneumatic hammer	without attachment	1
	110 0001*	Pneumatic hammer	with very soft plastic tip – red	1
	110 0002*	Pneumatic hammer	with very soft plastic tip – blue	1
	110 0003*	Pneumatic hammer	with medium-hard plastic tip – black	1
	110 0004*	Pneumatic hammer	with hard plastic tip – yellow	1
	110 0005*	Pneumatic hammer	with aluminium tip	1
	110 0006*	Pneumatic hammer	with steep tip	1
	111 0007*	Extra soft plastic tip	red	1
	111 0008*	Soft plastic tip	blue	1
	111 0009*	Medium-hard plastic tip	black	1
	111 0010*	Hard plastic tip	yellow	1



Adhesives and sealants

Unfortunately, there is no all-in-one adhesive, because every material has different characteristics. However, everything can be adhered: Metals, wood, glass, plastics, stone, rubber, etc. Everything can be adhered to everything! Whether the surfaces are temperature-sensitive or heat-resistant, whether rough or smooth. All materials can be bonded. Since these materials are often as different as their requirements, there are a multitude of adhesion processes and special adhesives for every type of material. Our overview only shows a small sample of the multitude of possibilities. If you have a special application, please contact us to determine the right adhesive for your individual case.

Cyanoacrylate adhesive

Item no.	Contents	Description	Application
220 0005	20 ml	Cyanoacrylate contact VA 20	Rubber and plastic bonding
220 0006	20 ml	Cyanoacrylate contact VA 100	Rubber and plastic bonding
220 0007	20 ml	Cyanoacrylate contact VM 20	Metal bonding
220 9008	30 ml	Cyanoacrylate contact VA 250 black	Rubber and plastic bonding
220 0009	20 ml	Cyanoacrylate Thixotrop 5132	Rubber, metal and plastic bonding

Adhesives and sealants

Type	Item no.	Contents	Description	Application
	220 0000	1000 ml	Single-component adhesive eppler424 – 1 kg can	Especially well suited for the adhesion of absorbent materials like papers, cardboard, chipboard, textiles, various woods, etc. with one another or with non-absorbent materials like plastics, rubber, foams, etc.
	220 0001	10 kg	Single-component adhesive eppler4241 – 10 kg bucket	
	220 0002		Single-component adhesive eppler4751 – Minimum order quantity = 250 kg	For the adhesion of various materials, especially plastic with metals and plastic with plastic. Due to its very high elasticity, it is a suitable adhesive for materials like soft PVC. It is also suitable for the adhesion of link tubes made of metal with lower amounts of thermal stress



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Adhesives and sealants

Type	Item no.	Contents	Description	Application
	220 0014	200 ml	Contact adhesive epple 200/S – 200 g brush tin	Epple 200/s is applied as a contact adhesive. Both materials are coated (approx. 150–300 g/m ²) and then pressed together after a short ventilation time. Especially well suited for the adhesion of rubber. In addition, the adhesives can also be used for the adhesion of plastics with one another or with metals, thanks to its broad adhesion spectrum.
	220 0015	800 ml	Contact adhesive epple 200/S – 800 g can	
	220 0016	4.5 kg	Contact adhesive epple 200/S – 4.5 kg bucket	
	220 0017	9 kg	Contact adhesive epple 200/S – 9 kg bucket	
	220 0018	24 kg	Contact adhesive epple 200/S – 24 kg hobbock	
	220 9003	91 g	Special adhesive 1475 – 91g tube	Single or dual component special adhesive for the adhesion of thermoplastics, duroplastics, wood and metals (applicable as a dual component compound with BOSCO dur AF8650 as a hardener component)
	220 9005	910 g	Special adhesive 1475 – 910 g can	
	220 9004	8.9 kg	Special adhesive 1475 – 8.9 kg container	
	231 9002	300 ml	Single component polyurethane sealant Sikaflex – 291 – black, 300 ml cartridge	Can be successfully used on the following materials commonly used in ship construction: Metal, wood, ceramic, plastic, base coats and paints (2-K systems)
	231 9003	300 ml	Single component polyurethane sealant Sikaflex – 291 – white, 300 ml cartridge	
	231 9004	300 ml	Single component polyurethane sealant Sikaflex – 291 – grey, 300 ml cartridge	
	231 9050	310 ml	Single component, neutrally moistened Silicone sealant 386, transparent – 310 ml	For construction expansion and connection joints indoors and outdoors. For use on aluminium, PVC, zinc, coated iron and wood parts, fleece, various plastics, etc. Do NOT use for sealing glass, aquarium construction or on marble, natural stone or bitumen!



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Adhesives and sealants

Type	Item no.	Contents	Description	Application
	220 9009	90 ml	Silicone adhesive Elastosil E41 transparent – 90 ml	All-round adhesive
	220 9010	310 ml	Silicone adhesive Elastosil E41 transparent – 310 ml	
	220 9011	24 kg	Silicone adhesive Elastosil E41 transparent – 24 kg	
	220 9023	290 ml	Single component STP adhesive Cosmohybrid 490 – 290 ml euro cartridge with 460 g contents	Outstanding adhesion (with appropriate pretreatment of the surfaces) on various metals, wood materials, duro and thermoplastics, construction materials, natural stone, ceramic and glass – even with low processing temperatures starting from 0 °C.
	231 9005	100 ml	Sealant for surface sealing eppler 22, 100 ml tube	Sealant for the sealing of flanges, etc. on gear units for transformers, for pumps of various designs, for compressors and turbines, etc.
	231 9006	250 ml	Sealant for surface sealing eppler 22, 250 ml brush tin	
	231 9007	500 ml	Sealant for surface sealing eppler 22, 500 ml can	
	231 9008	1,000 ml	Sealant for surface sealing eppler 22, 1,000 ml can	
	231 9009	95 ml	Sealant for seam and surface sealing eppler 33, 95 ml tube	Sealant for the sealing of flanges, etc. on gear units for transformers, for pumps of various designs, for compressors and turbines, etc.
	231 9010	250 ml	Sealant for seam and surface sealing eppler 33, 250 ml brush tin	
	231 9011	500 ml	Sealant for seam and surface sealing eppler 33, 500 ml can	
	231 9012	1,000 ml	Sealant for seam and surface sealing eppler 33, 1,000 ml can	
	231 9013	310 ml	Sealant for joint and seam sealing eppler 45, 310 ml cartridge	Ideally suited for sealing joints subject to vibrations or for sealing joints subject to changing thermal stresses. It is used, in particular, in the construction of painting systems for the sealing of joints between the cassette elements as well as HVAC applications. Moreover, eppler 45 is suitable for the sealing of housings in machinery construction as well as in the indoor construction of production rooms.
	231 9014	25 kg	Sealant for joint and seam sealing eppler 45, 25 kg bucket	

Minimum order quantities on request
* Available from stock, subject to prior sale
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TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
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Screw fastening

Type	Item no.	Contents	Description	Application
	220 9007	50ml	Universal screw fastener Weicon-Lock AN 302-43, KTW tested, higher viscosity, medium firmness, normal removability	
	220 9024	20 g	Screw fastener epple-loc 6001, green, 20 g bottle	
	220 9025	50 g	Screw fastener epple-loc 6001, green, 50 g bottle	
	220 9026	250 g	Screw fastener epple-loc 6001, green, 250 g bottle	
	220 9027	20 g	Screw fastener epple-loc 2000A, blue, 20 g bottle	
	220 9028	50 g	Screw fastener epple-loc 2000A, blue, 50 g bottle	
	220 9029	250 g	Screw fastener epple-loc 2000A, blue, 250 g bottle	



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TP Blau GmbH

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Primers and activators

Type	Item no.	Con- tents	Description	Application
	222 0002 222 0003	10 ml 150 ml	Contact activator for cyanoacrylate adhesives, 10 ml bottle Contact activator for cyanoacrylate adhesives, 150 ml spray	The activator accelerates the hardening of WEICON contact cyanoacrylate adhesives. With the use of absorbent surfaces such as wood, foam, etc. and all chemically treated surfaces, such as galvanised metal, etc., the activator is effective for approx. 1 minute. With non-absorbent surfaces, the activator remains effective for up to approx. 12 hours.
	222 0004	200 ml	COSMOPLAST 584 – accelerator for cyanoacrylate adhesives, 200 ml	Is used for the controlled, accelerated hardening of cyanoacrylate adhesives.
	222 0005	10 ml	Contact primer for polyolefins	Many plastics can only be conditionally adhered or not at all without prior treatment. With the pretreatment of this plastic with WEICON contact primer, a change of the surface structure takes place. As a result, the bonding of plastics, such as polyethylene (PE) and polypropylene (PP) from the group polyolefins, which are otherwise difficult to adhere is enabled. Even modern thermoplastic elastomers (TPE), Teflon® (PTFE) and plastics used with them, as well as silicone can be adhered after pretreatment with WEICON contact primer.



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TP Blau GmbH

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Fax: +49 (0) 2 02 / 27 34 6-60

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Cleansers, solvents

Type	Item no.	Con- tents	Description	Application
	222 9003	1,000 ml	Cosmofen 60 – special cleaner	Mild odoured, quick-drying special cleaner for industrial and trade applications. Thanks to its good applicability on many painted surfaces, it is ideally suited for many plastic and metal processing areas.
	222 9004	1,000 ml	Cosmofen 10 – PVC cleaner	Is used as an easily dissolved cleanser for sections made of PVC hard/soft in plastic window construction in specialist operations. It is suited for the cleaning of various non-transparent thermoplastics and duroplastics in the widest range of industrial applications.



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Technical properties of cyanoacrylate adhesives

Product		VA 20	VA 100	VM 20	VA 250 Black	Thixotrop 5132
Characteristics						
Base		Ethyl	Ethyl	Methyl	Ethyl	Ethyl
Properties		Colourless, clear liquid, VA 250 Black, Thixotrop 5132 gel-like				
Features		Especially well-suited for rubber and plastic bonding		Especially well-suited for metal bonding	Especially well-suited for rubber and plastic bonding	Especially well-suited for rubber, metal and plastic bonding
Viscosity at +20 °C mPa's Brookfield		< 20	60–120	20–40	2000–3000	6000–9000
Max. gap bridging in mm **		0.10	0.15	0.10	0.20	0.20
Spec. density at +20 °C g/cm ³		1.04	1.06	1.10	1.06	
Flame point according to Abel-Pensky DIN 55213		87 °C (+189 °F)				
Initial adhesion in seconds on	Aluminium 1)	30–60	30–60	50–70	90–120	60–100
	Nora test rubber 2)	2–15	3–20	10–60	20–40	15–25 (EPDM)
	Hard PVC 3)	5–60	10–60	30–120	40–80	--
	Wood	--	--	--	--	8–16
Final solidity in hours		24				



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Vehicle windows made of light metal

Stationary windows, sliding windows, folding windows, display windows, etc.,
surface-protected with high-quality powder coating or paints in the desired colour.



Detailed view



Vehicle windows, cab doors and roof hatches made of light metal, toughened and laminated vehicle safety glass



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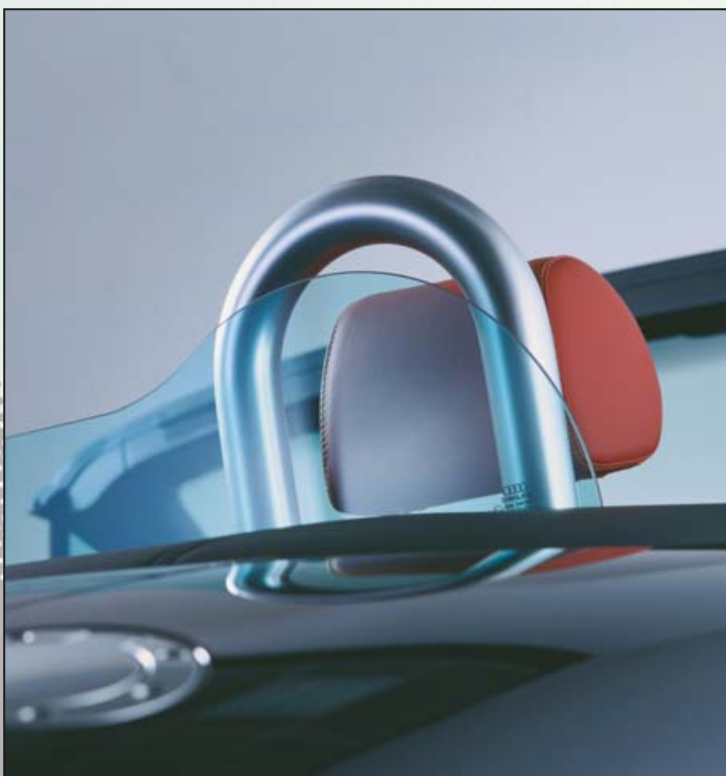
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Single pane safety glass

Insulating glass

Laminated glass



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E9
TINTED
43R-000462
AS1 M-4 DOT 496
3.....

Vehicle windows, cab doors and roof hatches made of light metal, toughened and laminated vehicle safety glass



Accessories – latches, handles, etc.

The items shown here are only a small selection of our product portfolio. If the items shown here are not suitable for your installation application, we would be happy to advise you in order to offer you an item appropriate for your application.

	Item no.	Description	Application	PU
	304 9500	Pawl handle Consisting of: 1 x 148 9010 = Stationary pawl 1 x 148 9011 = Moving pawl 1 x 148 9012 = Spacer plate 1 x 148 9013 = Mounting plate 1 x 148 9014 = Surfacing pin 1 x 402 9043 = Spring 0.9 x 25 mm 2 x 402 9046 = Countersunk screws flat/Phillips M5 x 20	For the opening and closing of moving panes, such as those on cab windows (matching pawl rails are optionally available)	1
	304 9501	Pawl handle Consisting of: 1 x 148 9010 = Stationary pawl 1 x 148 9011 = Moving pawl 1 x 148 9012 = Spacer plate 1 x 148 9013 = Mounting plate 1 x 402 9062 = Galvanised pawl pin 1 x 402 9043 = Spring 0.9 x 25 mm 2 x 402 9046 = Hexagon screws flat/Phillips M5 x 20	For the opening and closing of moving panes, such as those on cab windows (matching pawl rails are optionally available)	1
	410 9001	Rotary latch lock, right		1
	410 9002	Rotary latch lock, left		1
	410 9003	Plastic handle		1



Properties of technical rubber qualities (elastomers)

Overview

1. Composition of the elastomers
2. Rubber blend (rubber components)
3. Brief description of rubber qualities
(NR, IIR, SBR, NBR, CR, CSM, EPDM, FKM, MQ/VMQ, FVMQ)
4. Damage of elastomers due to environmental influences (ageing)
5. Elastomers – selection/overview (guidelines values at +23 °C)
6. Hardness/hardness test according to Shore
7. Chemical resistance of elastomers (table)
8. Radiation resistance/gas permeability guidelines values (permeability)
9. Measurement tolerances for soft rubber sections
10. Measurement tolerances for soft rubber injection mouldings
11. Sectional rubber shapes
12. Static pressure and tensile loads
13. Connecting joints and corners of rubber sections
14. Guidelines for storing soft rubber sections
15. Means of fastening rubber sections

1. Composition of the elastomers

Rubber is a highly elastic material with good elastic recovery behaviour. In technical applications this material is identified as an elastomer. Natural or synthetic rubber serves as the base material for the production of elastomers. A rubber mixture includes various additives. With the addition of heat, rubber is vulcanised. The typical properties for rubber, such as elastic behaviour, abrasion, high elongation, etc., is achieved through the vulcanisation of the elastomer grade.

Elastomers are formed on the molecular structure of polymer chemistry. Individual modules (monomers or molecules) are combined to create polymer chains or macromolecules. The chain arrangement is wide-meshed and spatially cross-linked. A connection of these points is enabled during the vulcanisation due to the influence of heat and addition of sulphur. This process lends the elastomers their elastic behaviour. Deformations within the elastic range can often be made arbitrarily with changing the output form. As soon as the applied deformation forces abate, the elastomer practically returns to its initial position. Remaining deformations only arise if the elastic range was exceeded.

At low temperatures, however, elastomers have a tendency to harden; at high temperatures they tend to soften. If the described application temperature is exceeded, no viscous flow takes place. Elastomers retain their form until their destruction and associated structural breakdown.



2. Rubber blend (rubber components)

The composition of the rubber blend depends on the intended use. The rubber grade and corresponding additives are similarly selected on this basis. The mechanical strength and the resistance to chemicals, temperature and ageing are determined by the appropriate choice of rubber grade. Other properties, e.g. harder low-temperature flexibility or colouration, are obtained by using appropriate additives. The following components are most commonly included in a rubber blend:

Wt. Component parts
%

approx. 56	Rubber
approx. 28	Fillers
approx. 8.3	Plasticisers
approx. 2.7	Zinc oxide
approx. 1.5	Processing auxiliaries
approx. 1.1	Antioxidants
approx. 1.1	Accelerators
approx. 0.6	Sulphur
approx. 0.6	Stearic acid
approx. 0.1	Retarders

3. Summary of rubber grades

NR (Natural Rubber)

Natural rubber is produced from the latex obtained from rubber trees. Sulphur is the most commonly used vulcanising agent. Depending on their hardness, soft rubber grades contain between 0.5 % and 8 % sulphur. Unlike many synthetic rubbers, NR displays particularly good elastic properties and is primarily used for parts subject to dynamic loads.

International designation:	NR
Temperature resistance:	-40 to +80 °C
Short-term peak temperature:	+130 °C
Ozone resistance:	moderate
Resistance to weathering:	good
Tensile strength and elongation:	excellent
Elasticity:	very good
Abrasion:	good
Notch impact resistance:	excellent

**Resistance to:**

Oil:	not suitable
Petrol:	not suitable
Benzene:	not suitable
Water:	good
Acids:	good
Alkalis:	good

Forms available:

Hardness range:	35–90 Shore A
Colours:	all standard colours, preferably black, other colours on request.
Injection mouldings:	yes
Other mouldings:	yes

Special features:

NR can basically be coloured in any shade, including light shades. However, durable colour-fastness cannot be guaranteed, especially in outdoor applications, and it is therefore advisable not to use coloured or light blends.

Suitability for use with food: Certain light blends may be used with foods.

IIR (Butyl rubber)

Butyl rubber is obtained by co-polymerising isobutylene with a small proportion of isoprene and vulcanised with sulphur. IIR cannot be mixed with other rubber grades.

The good resistance to ageing and weathering decreases as the isoprene content increases.

International designation:	II R
Temperature resistance:	–30 to +120 °C
Short-term peak temperature:	+180 °C
Ozone resistance:	excellent
Resistance to weathering:	excellent
Tensile strength and elongation:	good
Elasticity:	moderate
Abrasion:	moderate
Notch impact resistance:	good

Resistance to:

Oil:	moderate
Petrol:	not suitable
Benzene:	not suitable
Water:	excellent
Acids:	excellent
Alkalis:	excellent

Forms available:

Hardness range:	35–85 Shore A
Colours:	all standard colours, preferably black, other colours on request.
Injection mouldings:	yes
Other mouldings:	yes

Special features:

Extremely low gas permeability (approx. 10 times lower than for NR).
Easy to colour.
Very good dielectric properties.

Suitability for use with food: Not suitable



SBR (Styrene Butadiene Rubber)

SBR is quantitatively one of the most important synthetic rubbers with properties similar to those of natural rubber. SBR is based on butadiene rubber and contains between 10 % and 35 % styrene. The properties of SBR come closer to those of the thermoplastic PS (impact-resistant polystyrene) as the styrene content increases. SBR is frequently mixed with natural rubber.

International designation:	SBR
Temperature resistance:	-40 to +80 °C
Short-term peak temperature:	+130 °C
Ozone resistance:	moderate
Resistance to weathering:	good
Tensile strength and elongation:	excellent
Elasticity:	very good
Abrasion:	good
Notch impact resistance:	good

Resistance to:

Oil:	not suitable
Petrol:	not suitable
Benzene:	not suitable
Water:	good
Acids:	good
Alkalis:	good

Forms available:

Hardness range:	35–95 Shore A
Colours:	all standard colours, preferably black, other colours on request.
Injection mouldings:	yes
Other mouldings:	yes
Cellular:	yes

Special features:

SBR can basically be coloured in any shade, including light shades, although the mechanical strength will suffer as a result. SBR has slightly better resistance to abrasion, high temperature and ageing than NR, although its elasticity is less favourable.

Suitability for use with food: Certain blends may be used with foods.



NBR (Nitril Rubber)

NBR is a copolymer based on acrylonitrile and butadiene. A higher acrylonitrile content improves the resistance to mineral oils and fuels but simultaneously impairs the elasticity, low-temperature flexibility and gas permeability. The structure of NBR is similar to that of SBR, although its resistance to mineral oils and fuels is vastly better.

International designation:	NBR
Temperature resistance:	-30 to +100 °C
Short-term peak temperature:	+150 °C
Ozone resistance:	moderate
Resistance to weathering:	moderate
Tensile strength and elongation:	good
Elasticity:	good
Abrasion:	good
Notch impact resistance:	good

Resistance to:

Oil:	excellent
Petrol:	excellent
Benzene:	moderate
Water:	good
Acids:	moderate
Alkalis:	moderate

Forms available:

Hardness range:	30–95 Shore A
Colours:	dark colours, preferably black, other colours on request.
Injection mouldings:	yes
Other mouldings:	yes

Special features:

The abrasion of NBR can be improved by adding PVC.
NBR can be mixed with NR, BR and SBR. Light vulcanised products are possible. Peroxide can be used for vulcanisation instead of sulphur.
NBR is also manufactured in the form of microcellular rubber.

Suitability for use with food: Certain blends may be used with foods.



CR (Chloroprene Rubber)

A commonly found synthetic rubber. CR has numerous very good properties.

Various vulcanisation systems can be used in its manufacture, although the different vulcanisation systems also lead to different results, such as in the resistance to oil, high temperatures or weathering. Individual properties can be enhanced, depending on the manner in which the vulcanisation method is applied.

International designation:	CR
Temperature resistance:	-30 to +100 °C
Short-term peak temperature:	+150 °C
Ozone resistance:	excellent
Resistance to weathering:	excellent
Tensile strength and elongation:	good
Elasticity:	good
Abrasion:	good
Notch impact resistance:	good

Resistance to:

Oil:	good
Petrol:	moderate
Benzene:	not suitable
Water:	good
Acids:	good
Alkalis:	excellent

Forms available:

Hardness range:	40–90 Shore A
Colours:	dark colours, preferably black, other colours on request.
Injection mouldings:	yes
Other mouldings:	yes

Special features:

There are self-extinguishing blends.

Suitability for use with food: Certain blends may be used with foods.



CSM (Chlorosulphonated Polyethylene Rubber)

Chlorosulphonated polyethylene is based on sulphochlorination of polyethylene. The end product is an elastic, vulcanisable rubber with exceptionally good properties for use in outdoor applications. CSM displays excellent resistance to ozone and weathering and can be coloured in all conceivable shades (including pastel shades). Coloured CSM sections used in outdoor applications display little or no change in colour, bleaching, discolouration or darkening, even after prolonged exposure to direct sunlight. This material is thus eminently suitable for use in buildings and facades, as well as in vehicles of all types.

International designation:	CSM
Temperature resistance:	-20 to +120 °C
Short-term peak temperature:	+175 °C
Ozone resistance:	excellent
Resistance to sunlight:	excellent (even for light grades)
Resistance to weathering:	excellent
Tensile strength and elongation:	good
Elasticity:	good
Abrasion:	good to moderate
Notch impact resistance:	good

Resistance to:

Oil:	good
Petrol:	good to moderate
Benzene:	swells strongly
Water:	good to moderate
Acids:	excellent
Alkalis:	good

Forms available:

Hardness range:	50–85 Shore A
Colours:	black to white
Injection mouldings:	yes
Other mouldings:	yes

Suitability for use with food: not permitted



EPDM (Ethylene Propylene Terpolymers)

EPDM was initially developed at the beginning of the 1960s. The saturated structure of EPDM gives rise to the classic properties, such as high resistance to weathering and moisture, ozone resistance and high thermal resistance.

Due to its high elasticity and good chemical resistance, it is used in the widest range of sealing applications.

Trade names:	EPDM, APTK
International designation:	EPDM
Temperature resistance:	-40 to +120 °C
Short-term peak temperature:	+160 °C
Ozone resistance:	excellent
Resistance to weathering:	excellent
Tensile strength and elongation:	good
Elasticity:	good
Abrasion:	good
Notch impact resistance:	good

Resistance to:

Oil:	moderate
Petrol:	not suitable
Benzene:	not suitable
Water:	good
Acids:	excellent
Alkalis:	excellent

Forms available:

Hardness range:	40 – 85 Shore A
Colours:	all standard colours, preferably black, other colours on request.
Injection mouldings:	yes
Other mouldings:	yes
Cellular:	yes

Suitability for use with food: moderate to good



FKM (Fluoro Rubber)

FKM rubbers are high-quality copolymers of fluorinated hydrocarbons. FKM is one of the most expensive grades with correspondingly good properties, including some of the best known for elastomers. Outstanding chemical and thermal resistance make it possible to use this material for exceptional applications.

Trade names:	VITON, FLUOREL, TECNOFLON
International designation:	FKM
Temperature resistance:	-20 to +200 °C
Short-term peak temperature:	+350 °C
Ozone resistance:	excellent
Resistance to sunlight:	excellent
Resistance to weathering:	excellent
Tensile strength and elongation:	good
Elasticity:	moderate
Abrasion:	moderate
Notch impact resistance:	moderate to good

Resistance to:

Oil:	good
Petrol:	excellent
Benzene:	good
Water:	good
Acids:	excellent
Alkalis:	good

Forms available:

Hardness range:	65–90 Shore A
Colours:	black
Injection mouldings:	yes
Other mouldings:	yes

Special features:

FKM is not available in light colours. This material can only be bonded within limits.

Can be used at temperatures up to +250 °C, although the long-term serviceability suffers as a consequence.

Suitability for use with food: not permitted



MQ/VMQ (Methyl Silicone Rubber)

Methyl vinyl silicone grades have enhanced properties are a further development of the basic MQ grades. The low temperature flexibility of VMQ has been significantly improved as a result of modification with phenyl groups. The resultant PMQ or PVMQ grades are used less commonly on account of their tendency to swell. In addition to these silicone rubbers, which can be hot-vulcanised with peroxides, this class also includes vulcanisable types which are primarily used as joint filler, pastes, adhesives, grouting compounds, etc. Silicone rubber is characterised by exceptionally good resistance to temperature (continuous service temperature -60 to +200 °C), although the general physical values are lower than those of good rubber grades. While the physical values of normal rubbers decline constantly with rising temperature, the high-temperature values for silicone rubber are only marginally lower than those measured at room temperature. Silicone does not conduct electricity, making this material suitable for numerous applications in the electrical engineering sector (in the event of a short-circuit, normal rubber grades produce electrically conductive carbon black; silicone rubber parts, on the other hand, burn to produce non-conductive silicic acid).

Trade names:	SILASTIC, SILOPREN, RHODORSIL
International designation:	MQ, VMQ
Temperature resistance:	-60 to +200 °C
Short-term peak temperature:	+250 °C
Ozone resistance:	excellent
Resistance to sunlight:	excellent
Resistance to weathering:	excellent
Tensile strength and elongation:	low
Elasticity:	good
Abrasion:	moderate
Notch impact resistance:	moderate

Resistance to:	Oil:	good
	Petrol:	not suitable
	Benzene:	not suitable
	Water:	moderate
	Acids:	not suitable
	Alkalis:	not suitable

Forms available:	Hardness range:	30–75 Shore A
	Colours:	transparent to black
	Injection mouldings:	yes
	Other mouldings:	yes

Special features: Silicone rubber is transparent, but can also be coloured.

Suitability for use with food: very good

FVMQ (Fluoro silicone rubber)

Fluoro silicone rubber can be considered a further development of MQ/VMQ. FVMQ has a considerably improved chemical resistance to mineral oil and solvents with reduced hot air and cold flexibility.



4. Damage of elastomers due to environmental influences

External influences have a much greater effect on the basic properties of rubber products than on those of any other material. The correct choice of elastomer grade and consideration of suitable design measures are therefore of decisive importance in determining the service life and correct functioning of a rubber section or rubber moulding.

Exposure to oxygen, light, heat, ozone, radiation, moisture or corrosive chemical media can cause rubber to age much more rapidly. Mechanical stresses also have a negative effect.

Visible signs of ageing include the following:

- Increasingly dull surface
- Visible swelling
- Formation of cracks in the surface

Measurable signs of ageing include the following:

- Changes in the elastic properties (damping, resilience, etc.)
- Lower elongation and tear strength
- Permanent deformations
- Hardening or softening
- Change in weight due to swelling or extrusion



5. Elastomers – selection / overview (guidelines values at 23 °C)

ISO designation	Rubber grade	Trade names	Spec. dens. g/cm³	Hardness Shore A	Min. and Max. service temp. °C	Mech. characteristics	Abrasion resistance	Elasticity	Resistance to weathering/ozone	Resistance to mineral oil	Flame resistance
NR	Natural rubber		1.2	35–90	–40 to +80	good to very good	good to very good	very good	low	low	burns
SBR	Styrene butadiene rubber	BUNA-S PLIOFLEX	1.2	35–95	–40 to +80 (+100)	moderate to good	very good	good	low	low	burns
IIR	Butyl rubber	BUTYL PO-LYSAR	1.2	35–85	–30 to +120 (+130)	moderate to good	moderate	low	very good	low	burns
NBR	Nitril rubber	PERBUNAN HYCAR BUNA-N BUTACIL	1.20 – 1.5	30–95	–30 to +100 (+120)	moderate to good	good	good	low	good to very good	burns
CR	Chloroprene rubber	NEOPRENE BUTACLOR	1.35	40–90	–30 to +100 (+120)	good	good	good	very good	good to moderate	burns with limits
CSM	Chloro-sulphonated polyethylene rubber	HYPALON	1.5	50–85	–20 to +120	good	good to moderate	good	very good	moderate to good	burns with limits
EPDM	Ethylene propylene tero-polymers	KELTAN NORDEL VISTALON EPCAR	1.2	40–85	–40 to +120	good	good	good	very good	moderate	burns
FKM	Fluoro rubber	VITON FLUOREL TECNOFLO	1.9	65–90	–20 to +200 (+250)	moderate to good	moderate	moderate	very good	very good	self-extinguishing
MQ/VMQ	Methyl silicone rubber	SILASTIC SILOPREN RHODORSIL	1.1	30–75	–60 to +200	moderate	moderate	good	very good	moderate to good	burns
FVMQ	Fluoro-silicone rubber		1.5	30–75	–55 to +175 (+200)	moderate	moderate	good	very good	good	burns with limits

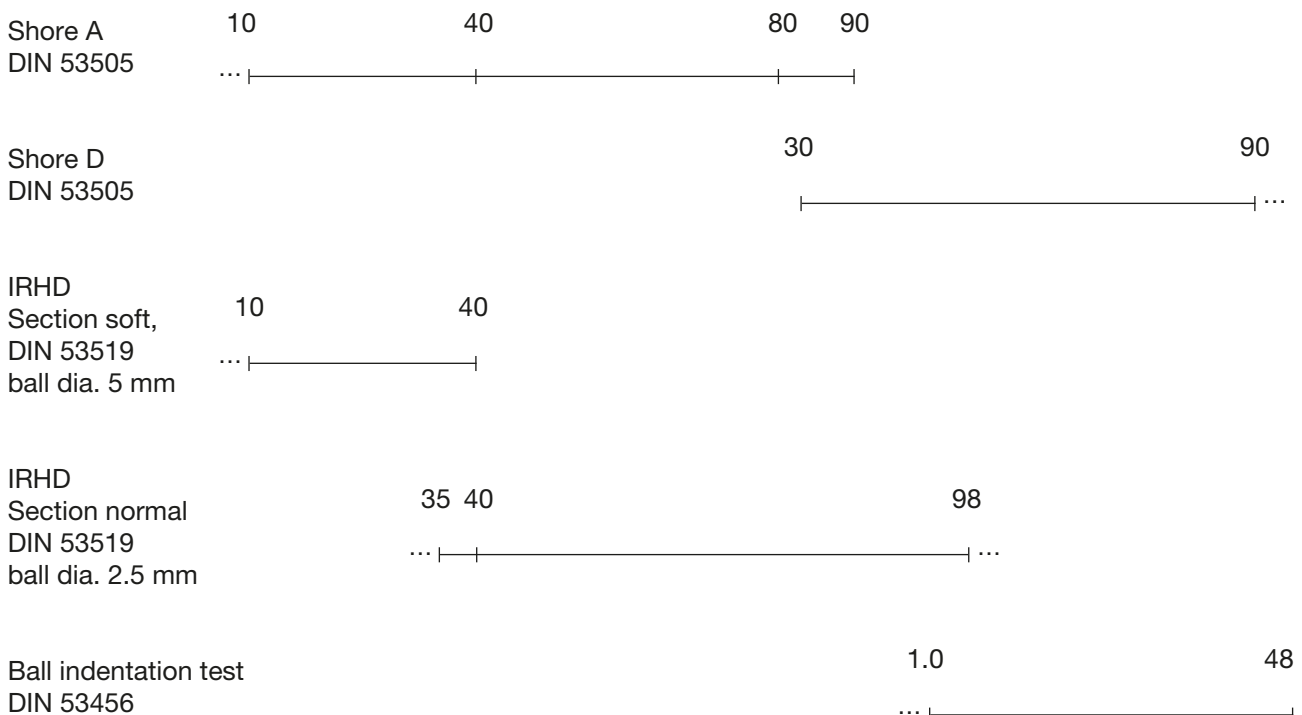


6. Hardness measurement

The hardness of rubber parts is normally measured in SHORE as defined in DIN 53505. Standard specimens or finished products are used for the measurements.

Testing the Shore hardness

This method indicates the resistance to penetration by a defined blunt cone (using scale A) or by a pointed cone (using scale D) when a defined force is applied. The penetration depth is read off on a scale with 100 units (e.g. 10 Shore A is very soft, 90 Shore A is almost hard). Scale A should be used for soft rubber and scale D for hardness values of approx. 95 Shore and higher. The Shore hardness is the most frequently applied method. The standard specimen has smooth, even test surfaces with a diameter of 30 mm and a thickness of 6 mm. The test is carried out using a test stand with a level steel plate; the indenter is applied to the specimen and the Shore hardness read off after 3 seconds. Tests on standard specimens should always be given preference over tests on finished products, as accurate results can only be obtained with standard specimens. The hardness of softer grades can also be tested as specified in standard IRHD, Section Soft, DIN 53519.



The diagram gives some indication of the application limits for the various methods of testing the hardness, but it should not be used for conversion.



7. Chemical resistance of elastomers:

Guidelines values at +23 °C

Notes:

The resistance values listed here are intended merely as guidelines for general information. They cannot be applied to all service conditions. The values may vary considerably, depending on such factors as higher temperatures, high concentrations, duration of exposure, high continuous mechanical stresses, dynamic loads, exposure to light and sunlight or additional effects, particularly since the nature and quantities of the constituent parts also exert a certain influence.

It is therefore essential to develop a rubber blend "tailor made" in accordance with the prevailing conditions for specific cases.

No liability is assumed for the general guideline values published here.
The figures were determined for normal concentrations at room temperature.

The elastomer designations are as defined in ISO R 1629.

ISO designation	Elastomer
NR	Natural rubber
IIR	Butyl rubber
SBR	Styrene butadiene rubber
NBR	Nitril rubber
CR	Chloroprene rubber
CSM	Chlorosulphonated polyethylene rubber
EPDM	Ethylene propylene terpolymers
COIECO	Epichlorhydrin ethylene oxide copolymers
FKM	Fluoro rubber
MQ/VMQ	Methyl silicone rubber
FVMQ	Fluoro silicone rubber
PNR	Polynorbornen



Assessments in table:

1 = resistant (little or no effect)

2 = resistant within limits (moderate effect)

3 = not resistant (strong effect)

4 = beginning to dissolve (slight swelling or dissolution)

Resistant to:	NR	SBR	IIR	NBR	CR	CSM	EPDM	MQ/MMQ	FVMQ	FKM
Acetaldehyde (ethanal)	3	3	2	4	3	2	2	3	2	4
Acetic acid, concentrated	3	4	3	4	4	4	1	1	4	4
Acetic anhydride (ethanoic anhydride)	2	3	2	3	2	2	2	2	4	4
Acetic ester (ethyl acetate)	4	4	3	3	3	3	2	3	4	4
Acetone	2	2	1	4	2	3	1	3	–	4
Acetone (dimethyl ketone, propanone)	2	2	1	4	2	3	1	3	4	4
Acetophenone	3	4	1	4	4	4	1	3	4	4
Acetyl chloride	–	–	–	–	4	4	–	–	1	1
Acetylene gas	1	1	1	1	2	2	1	2	1	1
Acetylene tetrachloride (tetrachloroethylene)	4	4	4	4	4	4	4	4	4	2
Acrylonitrile	4	3	3	4	2	3	4	3	4	4
Adipic acid, aqueous	1	1	1	1	1	1	1	–	1	1
Alcohol	1	1	1	2	1	1	1	2	1	2
Allyl alcohol (2 propene 1 ol)	2	1	1	1	1	1	1	4	4	4
Allyl chloride (3 chloropropene)	4	4	4	4	4	–	4	1	–	–
Aluminium acetate, aqueous	1	2	1	2	2	3	1	4	4	3
Aluminium chloride	1	1	1	1	1	1	1	2	1	1
Aluminium fluoride	2	1	1	1	1	1	1	2	1	1
Aluminium hydroxide	1	1	1	1	1	1	1	1	–	1
Aluminium nitrate	1	1	1	1	1	1	1	2	–	1
Aluminium phosphate, aqueous	1	1	1	1	1	1	1	1	1	1
Aluminium sulphate	1	2	1	1	1	1	1	1	1	1
Amino benzene (aniline)	3	3	2	3	3	3	2	3	3	1
Ammonia, anhydrous	1	1	1	2	1	2	1	3	4	4
Ammonia, aqueous (household ammonia)	1	1	1	2	1	1	1	2	2	3
Ammonium carbonate (sal volatile)	1	1	1	2	2	1	1	3	3	4
Ammonium chloride (sal ammoniac)	1	1	1	1	1	1	1	–	–	1
Ammonium fluoride	1	1	1	1	1	1	1	1	1	1
Ammonium hydroxide (aqueous ammonia)	1	1	1	2	1	1	1	2	2	3
Ammonium nitrate (fertilizer)	2	1	1	2	2	1	1	2	1	2
Ammonium phosphate (fertilizer)	2	1	1	1	1	1	1	2	1	1
Ammonium sulphate (fertilizer)	1	2	1	1	1	1	1	2	1	2
Ammonium sulphide	1	1	1	1	1	1	1	2	1	1
Amyl naphthaline	4	4	4	4	4	4	4	4	1	1
Amyl acetate (pentyl acetate)	2	3	1	4	4	4	1	4	4	4
Amyl alcohol (pentanol, pentyl alcohol)	2	2	1	2	1	1	1	4	1	2
Amyl borate	4	4	4	1	1	1	4	–	–	1
Amyl chloride (pentyl chloride, 1-chloro-pentane)	4	4	4	4	4	–	4	3	–	–
Aniline (aminobenzene)	3	3	2	3	3	3	2	2	1	1
Aniline hydrochloride	2	3	2	2	4	4	2	4	2	2



Resistant to:	NR	SBR	IR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Animal fats	4	4	2	1	2	2	2	2	1	1
Anisole (methoxybenzene, methyl phenyl ether)	3	3	4	3	3	4	4	4	4	4
Anone (cyclohexanone)	4	4	3	4	4	3	3	4	4	4
Antichlor (sodium thiosulphate, fixer)	2	2	1	2	1	1	1	1	1	1
Antimony trichloride	1	1	1	2	1	1	1	4	–	1
Aqua regia	3	3	3	3	3	2	3	3	3	2
Argon gas	1	1	1	1	1	1	1	1	1	1
Arsenic acid	2	1	1	1	1	1	1	1	1	1
ASTM-oil No. 1	4	3	3	1	2	2	4	2	–	1
ASTM-oil No. 2	4	4	4	1	3	3	4	2	2	1
ASTM-oil No. 3	4	4	4	2	4	3	4	3	4	2
Barium carbonate	1	1	1	1	2	–	1	1	1	1
Barium chloride	1	1	1	1	1	1	1	1	1	1
Barium hydroxide	1	1	1	1	1	1	1	1	1	1
Barium sulphate (barite, heavy spar)	1	1	1	1	1	1	1	1	1	1
Barium sulphide	1	2	1	1	1	1	1	1	1	1
Battery acid	3	3	1	3	3	1	1	4	4	2
Beer	1	1	1	1	1	1	1	1	1	1
Benzaldehyde (bitter almond oil)	–	4	1	4	4	4	1	4	4	4
Benzene	4	4	4	4	4	4	4	4	2	2
Benzoic acid	1	1	1	1	1	1	1	1	1	1
Benzyl alcohol (phenyl carbinol)	4	4	2	4	2	2	2	2	1	1
Benzyl chloride (d-chlorotoluene)	3	3	4	4	4	4	4	3	1	1
Bitumen	4	2	2	2	3	3	2	2	1	1
Black liquor	3	2	2	2	2	2	2	–	–	2
Bleaching liquor with 12 % active chlorine (sodium hypochlorite)	4	4	1	4	3	1	1	3	2	1
Boiled oil	4	4	4	2	3	4	4	–	2	1
Bone oil	3	3	2	1	3	3	3	3	2	1
Borax (sodium tetraborate)	2	2	1	2	1	1	1	2	2	1
Boric acid	1	1	1	1	1	1	1	1	1	1
Brake fluid, ATE blue (glycol base)	1	1	1	3	2	2	1	1	1	4
Bromine vapours	4	4	4	4	4	4	4	4	2	1
Bromine water, saturated	4	4	4	4	4	4	2	4	2	1
Bromine, liquid	4	4	4	4	4	4	–	3	2	1
Butadiene	4	4	3	4	3	3	4	3	2	2
Butanal (butyric aldehyde)	3	3	2	3	3	3	2	3	4	4
Butane, gaseous	4	4	4	1	1	2	4	3	1	1
Butanetriol (triol), aqueous	1	1	1	1	1	1	1	1	1	1
Butanoic acid (butyric acid, methylpropanoic acid)	3	3	4	2	3	2	4	4	4	2
Butanol (butyl alcohol)	1	1	2	1	1	1	2	2	1	1
Butanone (methyl ethyl ketone) MEK	4	4	1	2	4	4	1	4	4	4
Butter	4	4	2	1	2	2	1	1	1	1
Butyl acetate	3	4	2	4	4	4	2	4	4	4
Butyl acetate	3	4	2	4	4	4	2	4	4	4



Resistant to:	NR	SBR	IR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Butyl alcohol (butanol)	1	1	2	1	1	1	2	2	1	1
Butyl amine	4	4	4	3	4	4	4	2	4	4
Butyl benzoate	-	-	1	-	4	4	1	-	1	1
Butyl oleate	4	4	2	2	4	4	2	-	2	1
Butyl phenol	4	4	4	4	4	4	4	4	-	2
Butyl stearate	4	4	2	2	4	-	2	2	2	1
Butylene glycol (2-butoxyethanol, butyl cellosolve)	1	1	1	1	1	1	1	1	1	1
Butylene, liquid	4	4	4	2	3	3	4	3	2	1
Butyric acid	3	3	4	2	3	2	4	4	4	2
Butyric aldehyde (butanal)	3	3	2	3	3	3	2	3	4	4
Cacao butter	3	3	3	3	3	3	3	3	-	1
Calcium acetate	2	2	1	2	1	1	1	-	4	4
Calcium bisulphite	2	2	1	2	2	2	2	2	1	1
Calcium carbonate (chalk)	1	1	1	1	1	1	1	1	-	1
Calcium chloride, aqueous	1	1	1	1	1	1	1	1	1	1
Calcium hydroxide, aqueous (milk of lime)	1	1	1	1	1	1	1	1	1	1
Calcium hypochlorite, aqueous	4	4	1	3	3	1	1	2	1	1
Calcium nitrate, aqueous	1	1	1	1	1	1	1	2	1	1
Calcium phosphate, aqueous	1	1	1	1	1	1	1	1	1	1
Camphor	3	3	3	1	2	2	3	4	4	2
Carbamate	4	4	2	3	2	2	2	-	1	1
Carbolic acid (phenol)	4	4	2	4	4	3	2	4	2	1
Carbon dioxide, moist	2	2	2	1	2	1	2	1	1	1
Carbon disulphide	4	4	4	3	4	4	4	4	1	1
Carbon disulphide	4	4	4	3	4	4	4	4	1	1
Carbon monoxide, dry	2	2	1	1	1	1	1	1	2	1
Carbon tetrachloride	4	4	4	3	4	4	4	4	1	1
Carbon tetrachloride (tetrachloromethane)	4	4	4	3	4	4	4	4	1	1
Carbonic acid	1	1	1	1	1	1	1	1	1	1
Castor oil	1	1	2	1	1	1	2	1	1	1
Castor oil	1	1	2	1	1	1	2	1	1	1
Caustic potash (potassium hydroxide, potash lye)	2	2	1	2	1	1	1	3	3	2
Caustic soda (sodium hydroxide, soda lye)	1	1	1	2	1	1	1	3	3	2
Cellosolve (ethylene glycol)	4	4	2	-	-	2	2	-	-	3
Cellulose acetate (acetylated cellulose)	2	2	1	1	3	2	2	1	-	4
Cetyl alcohol (1-hexadecanol)	-	-	-	1	1	-	1	-	-	-
Chloracetone	2	2	1	4	2	2	1	3	4	4
Chloramine	1	1	1	1	1	1	1	3	3	4
Chlorbenzene (monochlorobenzene)	4	4	4	4	4	4	4	4	2	1
Chlorethanol (chloroethyl alcohol, ethylene chlorohydrin)	2	2	2	3	2	2	2	3	2	1
Chloric acid	3	3	1	3	2	1	1	4	4	1
Chlorinated lime	4	4	1	3	3	1	1	2	1	1
Chlorine dioxide	4	4	3	4	4	3	3	3	2	1
Chlorine gas, dry	3	3	2	3	2	2	1	4	1	1
Chlorine water, saturated	4	4	2	4	4	3	2	4	3	1



Resistant to:	NR	SBR	IIR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Chlorine, liquid	4	4	3	3	4	2	3	3	2	1
Chloroacetic acid (ethyl chloroacetate)	3	2	2	2	2	1	2	4	4	1
Chlorobromomethane (methylene chlorobromide)	4	4	2	4	4	4	3	4	2	1
Chlorobutadiene	4	4	4	4	4	–	4	4	2	1
Chloroform (trichloromethane)	4	4	4	4	4	4	4	3	2	2
Chloronaphthalene	4	4	4	4	4	4	4	4	2	1
Chlorosulphuric acid	4	4	4	4	4	4	4	4	4	3
Chlorothene (trichloroethane, methyl chloroform)	4	4	4	4	4	4	4	4	2	1
Chlortoluene	4	4	4	4	4	4	4	4	2	1
Chromic acid	4	4	3	4	4	2	2	3	3	1
Chromosulphuric acid	3	3	4	3	3	1	4	4	4	1
Cinnamic aldehyde	2	3	1	4	4	4	1	1	–	1
Citric acid, aqueous	1	1	1	1	1	1	1	4	1	1
Citrus oils	3	3	2	2	2	2	–	2	–	1
Clophen A	3	3	3	2	2	3	3	1	1	1
Cobalt chloride, aqueous	1	1	1	1	1	1	1	1	1	1
Coconut oil	4	4	3	1	2	2	3	1	1	1
Cod liver oil	4	4	4	1	1	1	4	1	1	1
Copper acetate, aqueous	1	1	1	1	1	1	1	1	1	1
Copper cyanide	1	1	1	1	1	3	1	1	1	1
Copper fluoride, aqueous	1	1	1	2	1	1	1	4	4	1
Copper nitrate, aqueous	1	1	1	2	1	3	1	4	4	1
Copper sulphate (copper vitriol)	2	2	1	1	1	4	1	1	1	1
Cottonseed oil	4	4	3	1	2	2	1	1	1	1
Creosol (wood tar)	4	4	4	1	4	4	4	4	1	1
Creosol, aqueous	4	4	4	3	3	3	4	4	2	1
Crotonaldehyde	1	1	1	1	1	1	1	4	4	1
Crude oil	4	4	4	2	3	2	4	4	1	1
Cumene	4	4	4	4	4	4	4	4	2	1
Cyclohexane	4	4	4	1	4	4	4	3	1	1
Cyclohexane (hexamethylene hecahydrobenzene)	4	4	4	1	4	4	4	3	1	1
Cyclohexanol (hexaline, anol)	2	3	3	2	1	1	3	–	1	1
Cyclohexanone (anone)	4	4	3	4	4	3	3	4	4	4
Cyclohexyl amine	3	3	3	3	3	2	3	4	4	3
Cymol	4	4	4	2	4	4	4	4	2	1
Dekalin (Decahydronaphthalene)	4	4	–	2	4	4	4	3	1	1
Dextrin, aqueous	1	1	1	1	1	1	1	1	1	1
Diacetone alcohol (pyrantone, dial) DA	2	2	1	4	1	1	1	1	3	4
Dibenzyl ether	4	4	2	4	4	4	2	2	–	1
Dibenzyl sebacate	4	4	1	4	4	4	1	4	4	1
Dibutyl ether (butyl ether)	4	4	4	3	4	4	3	4	–	1
Dibutyl phthalate	4	4	3	4	4	4	2	2	3	2
Dibutyl sebacate	4	4	2	4	4	4	2	2	2	2
Dichloroacetic methyl ester	3	3	2	3	3	2	2	3	3	3
Dichlorobenzene	4	4	4	4	4	4	4	4	1	1



Resistant to:	NR	SBR	IR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Dichlorobutylene	3	3	3	3	3	3	3	4	4	2
Dichloroethane (ethylene chloride)	4	4	4	3	4	4	3	3	4	2
Dichloroisopropyl ether	4	4	3	4	4	4	3	4	3	3
Dichloromethane	4	4	4	4	4	4	4	4	3	3
Dichloroethylene (ethylene dichloride, vinylidene chloride)	4	4	4	2	3	4	4	4	–	2
Dicyclohexamine	4	4	4	3	4	4	4	4	3	4
Diesel oil	4	4	4	1	2	4	4	4	1	1
Diethyl amine	2	2	2	3	3	3	2	2	4	4
Diethyl benzene	4	4	4	4	4	4	4	4	1	1
Diethyl ether (ether)	4	4	3	4	3	3	3	4	–	4
Diethyl sebacate	4	4	2	4	4	4	2	2	2	2
Diglycol	1	1	1	2	1	1	1	4	4	1
Diisobutyl ketone	3	3	2	4	4	4	2	4	4	4
Diisobutylene	4	4	4	1	3	3	4	4	4	1
Diisopropyl benzene	4	4	4	4	4	4	4	–	2	1
Diisopropyl ketone	–	–	1	4	4	3	1	–	4	4
Dimethyl amine	4	4	3	4	4	3	2	4	4	4
Dimethyl aniline	4	4	4	4	4	–	2	–	4	4
Dimethyl ether	2	3	1	3	3	2	1	4	4	3
Dimethyl formamide, DMF	2	3	2	3	2	2	2	1	2	3
Dimethyl hydrazine	–	–	1	2	2	1	1	4	4	4
Dimethyl ketone (acetone)	2	2	1	4	2	3	1	3	4	4
Dimethyl phthalate, DMP	4	4	2	4	4	4	2	–	2	2
Dinitrogen	4	4	3	4	4	4	3	3	3	4
Dinitrololuene	4	4	4	4	4	4	4	4	–	3
Diocetyl phthalate, DOP	4	4	2	4	4	4	2	2	2	2
Diocetyl sebacate	4	4	2	4	4	4	2	3	3	2
Dioxan	4	4	2	4	4	3	2	4	4	3
Diphenyl ether (diphenyl oxide)	4	4	4	4	4	4	4	3	2	2
Dipropylene glycol	4	4	3	4	4	4	3	4	4	4
Dispentene	3	3	3	2	3	3	3	3	3	1
Dodecyl alcohol	1	1	1	1	1	1	1	–	–	1
DOWTHERM A and E	4	4	4	3	3	4	3	3	2	1
Ethanal (acetaldehyde)	3	3	2	4	3	2	2	3	2	4
Ethanol (ethyl alcohol, spirit)	1	1	1	2	1	1	1	2	1	2
Ether (diethyl ether)	4	4	3	4	3	3	3	4	3	4
Ethyl (acrylate)	–	–	2	3	4	–	3	3	4	3
Ethyl acetate (acetic ester)	4	4	3	3	3	3	2	3	4	4
Ethyl acetate (acetic ester)	4	4	3	3	3	3	2	3	4	4
Ethyl acrylate	–	–	2	3	4	–	3	3	4	3
Ethyl alcohol (ethanol, spirit)	1	1	1	2	1	1	1	2	1	2
Ethyl benzene	4	4	4	4	4	4	4	4	2	1
Ethyl cellulose	2	2	2	–	2	2	2	3	4	4
Ethyl chloride (chloro ethane)	3	3	1	1	2	3	1	4	1	1
Ethyl chloroacetate (chloroacetic ester)	3	2	2	2	2	1	2	4	4	1



Resistant to:	NR	SBR	IR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Ethyl ether (ether, diethyl ether)	4	4	3	4	3	3	3	4	3	4
Ethyl oxalate	1	1	1	4	3	–	1	–	2	1
Ethyl pentachlorobenzene	4	4	4	3	4	4	4	–	2	1
Ethyl silicate	2	2	1	1	1	2	1	–	1	1
Ethylene bromide	4	4	3	3	3	3	4	4	3	2
Ethylene chloride (1.2 dichlorethane)	4	4	4	3	4	4	3	3	4	2
Ethylene chlorohydrin (chloroethanol)	2	2	2	3	2	2	2	3	2	1
Ethylene diamine (1.2 diaminoethane)	2	2	1	2	2	2	1	3	3	3
Ethylene formiate	4	4	2	4	2	2	2	–	1	1
Ethylene glycol (glycol, 1.2 ethanediol)	1	1	1	1	1	2	1	1	2	1
Ethylene hexanol (isooctyl alcohol, 2 ethyl 1 hexanol)	1	1	1	1	1	1	1	2	1	1
Ethylene mercaptan	4	4	4	4	4	4	4	4	–	1
Ethylene oxide (–20 °C)	1	1	2	4	4	4	2	3	4	4
Exhaust gases containing carbon monoxide	1	1	1	1	1	1	1	1	1	1
Fats mineral	3	3	3	1	2	2	3	2	1	1
Fats vegetable and animal	3	1	3	1	1	1	3	2	1	1
Fatty acids	4	4	4	2	2	4	4	2	1	1
Fluorine, dry	4	4	–	–	–	4	4	–	–	1
Fluorobenzene	4	4	4	4	4	4	4	4	2	1
Fluoroboric acid	2	2	3	2	2	2	2	–	–	4
Fluoroboric acid (hexafluorosilicic acid)	1	2	1	2	2	1	1	4	–	1
Formaldehyde (formalin, methanal)	1	1	1	2	2	1	1	1	–	1
Formamide	1	1	1	2	2	1	2	–	–	1
Formic acid	1	1	1	2	1	1	1	2	3	3
Freon (Frigen) 11	3	3	4	2	2	2	4	3	2	2
Freon (Frigen) 112	4	4	4	2	2	2	4	4	–	1
Freon (Frigen) 113	3	2	3	1	1	1	4	4	4	2
Freon (Frigen) 114	1	1	1	1	1	1	1	4	2	1
Freon (Frigen) 114 B 2	4	3	4	2	1	1	4	–	–	2
Freon (Frigen) 115	1	1	1	1	1	1	1	3	–	1
Freon (Frigen) 12	3	2	2	1	1	2	2	4	3	2
Freon (Frigen) 13 B 1	1	1	1	1	1	1	1	4	3	1
Freon (Frigen) 14	–	–	–	1	1	1	1	4	–	1
Freon (Frigen) 142 b	2	1	1	1	1	1	1	4	–	4
Freon (Frigen) 152 a	1	1	1	1	1	3	1	–	–	4
Freon (Frigen) 21	4	4	4	4	2	4	4	4	–	4
Freon (Frigen) 218	1	1	1	1	1	1	1	–	–	1
Freon (Frigen) 22	1	1	1	3	1	1	1	4	4	4
Freon (Frigen) 31	2	2	1	4	1	2	1	3	–	4
Freon (Frigen) 32	1	1	1	1	1	1	1	3	–	3
Freon (Frigen) 502	1	1	–	2	1	–	1	3	–	2
Freon (Frigen) BF	4	4	4	2	2	2	4	4	–	1
Freon (Frigen) C 316	1	1	1	1	1	1	1	4	–	–
Freon (Frigen) C 318	1	1	1	1	1	1	1	4	–	1



Resistant to:	NR	SBR	IR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Freon (Frigen) MF	4	2	4	2	4	4	4	4	-	2
Freon (Frigen) TA	1	1	1	1	1	1	1	1	-	3
Freon (Frigen) TC	4	2	1	1	1	1	2	4	-	1
Freon (Frigen) TF	3	2	4	1	1	1	4	4	4	1
Freon (Frigen) TMC	2	3	2	2	2	2	2	3	-	1
Freon (Frigen) TP 35	1	1	1	1	1	1	1	1	-	1
Freon (Frigen) TWD 602	3	2	1	2	2	2	1	-	4	1
Fruit juices	1	1	1	1	1	1	1	1	1	1
Fumaric acid	1	1	4	1	2	2	-	2	1	1
Furan	4	4	3	4	4	4	3	4	4	3
Furfuryl alcohol (furfurol)	3	3	2	2	2	2	2	4	4	4
Gallic acid (3, 4, 5 trihydroxybenzoic acid)	1	2	2	2	2	2	2	1	1	1
Gasoline	4	4	4	3	4	4	4	4	1	1
Gelatine, aqueous	1	1	1	1	1	1	1	1	1	1
Glacial acetic acid (100 % acetic acid)	2	3	2	3	3	3	1	2	3	3
Glucose (grape sugar)	1	1	1	1	1	1	1	1	1	1
Glue (bone glue)	1	1	1	1	1	1	1	1	1	1
Glycerine nitrate (nitroglycerine)	4	3	1	2	2	1	1	-	3	1
Glycerine/glycerol	1	1	1	1	1	1	1	1	1	1
Glycol (ethylene glycol)	1	1	1	1	1	2	1	1	2	1
Glycolic acid (hydroxyacetic acid)	1	1	1	1	1	1	1	1	1	1
Grape sugar, aqueous	1	1	1	1	1	1	1	1	1	1
Heating oil, petroleum base	4	4	4	1	2	2	4	3	1	1
Heating oil, rock-coal or lignite base	4	4	4	1	3	3	4	3	1	1
Helium gas	1	1	1	1	1	1	1	1	1	1
Heptane	3	3	3	1	1	2	3	1	1	1
Hexachlorcyclohexane	3	3	4	-	4	4	4	4	4	1
Hexachlorobutadiene	3	3	4	3	4	4	4	4	4	1
Hexaldehyde	4	4	2	4	1	3	1	2	3	3
Hexane	4	4	4	1	3	2	3	2	1	1
Hexantriol	4	4	1	1	1	1	1	1	1	1
Hexene	4	4	4	2	2	2	4	3	1	1
Hexyl alcohol (hexanol)	1	1	3	1	2	2	4	2	1	1
Hydraulic fluid, group H, HL, HLP (mineral oil base)	4	4	4	1	2	4	4	3	1	1
Hydraulic fluid, group has (oil-in-water emulsion)	4	4	4	1	3	4	4	4	-	1
Hydraulic fluid, group HSB (water-in-oil emulsion)	4	4	4	1	3	4	4	4	-	1
Hydraulic fluid, group HSC (polyglycol base)	2	2	2	2	2	2	2	2	2	2
Hydraulic fluid, group HSDa® (phosphoric acid ester)	4	4	3	4	4	4	2	2	-	1
Hydraulic fluid, group HSDb (S) (phosphoric acid ester)	4	4	4	4	4	4	4	2	-	1
Hydraulic fluid, group HSDc (1) (phosphoric acid ester)	4	4	4	4	4	4	4	2	-	1



Resistant to:	NR	SBR	IR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Hydrazine hydrate (diamide hydrate)	3	3	1	2	2	2	1	3	2	1
Hydrobromic acid, aqueous	3	4	1	4	2	1	1	4	4	1
Hydrochloric acid gas	4	4	1	3	2	1	1	4	4	1
Hydrochloric acid, 10 %	2	2	1	2	1	1	1	3	2	1
Hydrochloric acid, concentrated	3	3	1	3	3	3	1	3	3	2
Hydrocyanic acid (hydrogen cyanide)	2	2	2	2	2	1	1	3	2	1
Hydrocyanic acid (hydrogen cyanide)	2	2	2	2	2	1	1	3	2	1
Hydrofluoric acid (dil. < 65 %, cold)	3	3	3	4	3	2	3	–	–	2
Hydrofluoric acid (dil. < 65 %, cold)	3	3	3	4	3	1	3	–	–	1
Hydrogen cyanide (hydrocyanic acid)	2	2	2	2	2	1	1	3	2	1
Hydrogen gas	2	2	1	1	1	1	1	3	3	1
Hydrogen peroxide, 90 %	3	3	3	3	3	3	3	1	1	1
Hydrogen peroxide, diluted	2	2	1	2	1	1	1	1	1	1
Hydrogen sulphide	3	3	1	3	1	1	1	3	3	3
Hydroquinone (1, 4-dihydroxybenzene)	2	2	–	3	–	–	–	–	2	4
Hydroxyacetic acid (glycolic acid)	1	1	1	1	1	1	1	1	1	1
Hysroxylamine sulphate, aqueous	1	1	1	1	2	1	1	1	1	1
Ink	1	1	1	1	1	1	1	1	1	2
Iodine pentafluoride	4	4	4	4	4	4	4	4	4	4
Iodoform (tri-iodomethane)	–	–	1	–	–	–	1	–	–	–
Iron chloride, aqueous	1	1	1	1	1	1	1	1	1	1
Iron nitrate, aqueous	1	1	1	1	1	1	1	2	1	1
Iron sulphate (iron vitriol) aqueous	1	1	1	1	1	1	1	2	1	1
Isobutyl alcohol (isobutanol)	1	2	1	2	1	1	1	1	2	1
Isopropyl alcohol (isopropanol, persprite)	1	2	1	2	1	1	1	2	2	1
Isopropyl ether (diisopropyl ether)	4	4	4	2	2	2	4	4	4	4
Javel water (sodium hypochlorite)	3	3	2	2	2	2	2	2	2	1
Kerosene (aviation fuel)	4	4	4	2	3	3	4	4	1	1
Lactam	3	3	2	3	2	2	2	3	3	3
Lactic acid, aqueous	1	1	1	1	1	1	1	1	1	1
Lanolin (wool fat)	2	2	3	1	2	2	3	2	1	1
Laughing gas (nitrogen oxide)	1	1	1	1	1	1	1	1	1	1
Lauryl alcohol (dodecanol)	1	1	1	1	1	1	1	3	3	1
Lavender oil	4	4	4	2	3	3	4	3	2	1
Lead acetate (sugar of lead)	1	3	1	2	2	2	1	4	4	1
Lead nitrate	1	1	1	1	1	1	1	2	–	–
Linolic acid	–	–	4	2	4	4	4	2	–	–
Linseed oil	4	4	2	1	2	2	2	3	1	1
Liquid manure	1	1	1	1	1	1	1	1	1	1
Liquor	1	1	1	1	1	1	1	1	1	1
Lithium bromide, aqueous	1	1	1	1	1	1	1	1	1	1
Lithium chloride, aqueous	1	1	1	1	1	1	1	1	1	1
Isooctane	4	4	4	1	2	2	4	4	2	1
Isopropyl acetate	3	3	1	3	3	3	1	4	4	4
Isopropyl chloride	4	4	4	4	4	4	4	4	2	1



Resistant to:	NR	SBR	IR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Lubricating oil (mineral oil base)	4	4	4	1	2	2	4	2	1	1
Lyes, diluted	2	2	1	2	2	1	1	2	1	2
Magnesium chloride, aqueous	1	1	1	1	1	1	1	1	1	1
Magnesium hydroxide	2	2	1	2	1	1	1	1	1	1
Magnesium sulphate (epsom salts)	2	2	1	1	1	1	1	1	1	1
Maize oil	2	2	2	1	2	2	2	1	1	1
Maleic acid (ethylene dicarboxylic acid), aqueous	2	2	3	1	1	3	2	4	4	1
Margarine	4	4	4	1	2	4	4	1	1	1
Menthol	1	1	1	1	1	1	1	4	4	1
Mercurous chloride, aqueous	1	1	1	1	1	1	1	1	1	1
Mercury	1	1	1	1	1	1	1	1	1	1
Mercury nitrate	1	1	1	1	1	–	1	1	–	–
Methanal (formaldehyde)	1	1	1	2	2	1	1	1	–	1
Methane gas (pit gas, natural gas)	4	4	4	1	2	2	4	4	2	1
Methanol (methyl alcohol, wood alcohol)	1	1	1	2	2	1	1	1	1	3
Methoxybutyl alcohol (methoxybutanol)	3	3	1	1	1	1	1	4	4	1
Methyl acetate	4	4	2	4	2	4	2	4	4	4
Methyl acetate (ethyl acetate)	4	4	2	4	2	4	2	4	4	4
Methyl alcohol (methanol)	1	1	1	1	1	1	1	1	1	3
Methyl amine (monomethyl amine)	1	2	1	3	1	1	1	4	4	3
Methyl benzene (toluene)	4	4	4	4	4	4	4	4	2	1
Methyl bromide	4	4	4	4	4	4	4	4	2	1
Methyl butyl ketone	4	4	1	4	4	4	1	2	4	4
Methyl cellosolve (methyl glycol acetate)	3	3	1	4	3	2	2	2	–	3
Methyl chloride	4	4	3	4	4	4	3	4	2	1
Methyl chloride	4	4	3	4	4	4	3	4	2	1
Methyl chloroform (trichloroethane)	4	4	4	4	4	4	4	4	2	1
Methyl ethyl ketone (butanone, ethyl methyl keton)	4	4	1	4	4	4	1	4	4	4
MEK	4	4	1	4	4	4	1	4	4	4
Methyl formiate	4	4	2	4	2	2	2	2	–	–
Methyl glycol acetate (methyl cellosolve)	3	3	1	4	3	2	2	2	–	3
Methyl isobutyl ketone (isopropyl acetone)	4	4	3	4	4	4	3	4	4	4
Methyl metahacrylate	4	4	3	4	3	4	3	4	4	3
Methyl methacrylate	4	4	4	4	4	–	4	3	4	4
Methyl phenyl ether (anisole)	3	3	4	3	3	4	4	4	4	4
Methyl sulphuric acid, aqueous	4	4	2	4	2	1	1	4	3	1
Methylacrylate	4	4	2	4	2	4	2	4	4	4
Methylene chloride (dichlormethane)	4	4	4	4	4	4	4	4	3	3
Milk	1	1	1	1	1	1	1	1	1	1
Milk of lime (calcium hydroxide)	1	1	1	1	1	1	1	1	1	1
Mineral oils	4	4	4	1	2	2	4	2	1	1
Molasses	1	1	1	1	1	1	1	1	1	1
Monochloroacetic acid	4	3	1	3	3	2	1	4	4	3
Monochlorobenzene (chlorobenzene)	4	4	4	4	4	4	4	1	–	3



Resistant to:	NR	SBR	IR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Monoelhanolamine	2	2	2	3	4	4	2	2	4	4
Morpholine (diethylene oximide)	4	4	1	3	1	1	1	4	4	4
Motor oil	4	4	4	1	4	2	4	2	1	1
Myristyl alcohol	1	1	1	1	1	1	1	4	4	1
Naphtha	4	4	4	3	3	4	4	4	2	1
Naphthalene (mineral oil)	4	4	4	3	3	4	4	4	4	1
Natriumbisulfit, wässrig	2	2	1	1	1	1	1	1	1	1
Natural gas	3	3	4	1	2	2	4	2	3	1
Neatsfoot oil	4	4	2	1	—	—	2	2	1	1
Neon gas	1	1	1	1	1	1	1	1	1	1
Nickel acetate, aqueous	1	3	1	2	2	3	1	4	4	4
Nickel chloride	1	1	1	1	1	1	1	1	1	1
Nickel nitrate	1	1	1	1	1	—	1	1	—	1
Nickel sulphate	2	2	1	1	1	1	1	1	1	1
Nicotine acetate, aqueous	2	3	1	1	1	1	1	4	4	1
Nitric acid, aqueous, 10 %	4	4	2	4	2	1	2	4	4	2
Nitric acid, concentrated (aqua fontis), 65 %	4	4	3	4	3	2	3	4	4	2
Nitric acid, fuming	4	4	4	4	4	4	4	4	4	2
Nitro glycerine (glycerine trinitrate)	2	3	1	2	2	1	1	—	3	1
Nitro glycol, aqueous	2	2	1	4	2	2	1	4	4	1
Nitro methane	2	3	2	4	3	3	2	4	4	4
Nitro toluene	3	3	3	2	3	3	3	3	3	2
Nitrobenzene (essence of mirbane)	4	4	3	4	4	4	3	3	2	2
Nitrogen	1	1	1	1	1	1	1	1	1	1
Nut oil	4	4	3	1	2	2	3	1	1	1
Octadecane	4	4	4	1	2	2	4	4	1	1
Octal (dioctyl phthalate) DOP	4	4	2	4	4	4	2	2	2	2
Octane	4	4	4	3	4	4	4	4	2	1
Octyl alcohol	2	2	1	2	1	1	1	2	2	1
Octyl cresol	4	4	4	2	4	4	4	4	4	2
Oleic acid	4	4	4	2	3	3	3	3	3	1
Oleum (fuming sulphuric acid)	3	3	2	3	3	2	2	3	3	1
Oleyl alcohol	1	1	1	1	1	1	1	4	4	1
Olive oil	3	3	3	1	2	2	3	2	2	1
Oxalic acid (ethanedioic acid), aqueous	2	2	1	2	2	2	1	2	1	1
Oxalic acid (ethanedioic acid), aqueous	2	2	1	2	2	2	1	2	1	1
Oxygen	4	2	1	2	2	2	1	1	1	1
Ozone and air mixture	4	4	2	4	2	1	1	1	2	1
Palmitic acid	2	2	2	1	2	2	2	3	1	1
Paraffin oil	4	4	3	1	1	2	3	1	1	1
Paraffin wax, molten	4	4	4	1	1	1	1	1	1	1
Peanut oil	4	4	3	1	2	2	2	1	1	1
Pectin	1	1	1	1	1	1	1	1	1	1
Pentachlordiphenyl	3	3	3	3	3	3	3	4	4	1
Pentanol (pentyl alcohol, amyl alcohol)	2	2	1	2	1	1	1	4	1	2



Resistant to:	NR	SBR	IR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Perchlorethylene (tetrachlorethylene)	4	4	4	3	4	4	4	3	2	1
Perchloric acid	3	3	2	3	2	2	2	4	2	1
Perchloric acid (perchloric acid)	3	3	2	3	2	2	2	4	2	1
Petrol/benzene 60/40 and 50/50	3	3	3	3	3	3	3	3	2	2
Petrol/benzene 80/20 and 70/30	3	3	3	2	3	3	3	3	1	1
Petrol/benzene/ethanol 50/30/20	4	4	4	3	3	4	4	4	2	2
Petrol, premium grade	4	4	4	2	2	2	4	4	1	1
Petrol, unleaded	4	4	4	1	2	2	4	4	1	1
Petroleum	4	4	4	2	4	4	4	3	2	1
Petroleum ether	4	4	4	1	2	2	4	3	2	1
Petroleum, kerosene	4	4	4	1	3	3	4	4	1	1
Phenol	4	4	2	4	4	3	2	4	2	1
Phenylethylether	4	4	4	4	4	4	3	4	4	3
Phenylhydrazine	2	2	3	4	3	3	3	4	4	1
Phosgene, liquid	3	4	2	2	1	2	2	3	3	1
Phosphine	1	–	1	3	1	1	1	4	4	1
Phosphorated hydrogen	1	3	1	4	2	1	1	–	–	1
Phosphoric acid 20 %	2	3	1	2	2	1	1	3	2	1
Phosphoric acid, concentrated	4	4	2	3	3	3	4	4	2	1
Phosphorus oxychloride	2	2	1	4	2	1	1	4	4	1
Phosphorus trichloride	4	4	1	4	4	4	1	3	1	1
Photographic developer	1	1	1	1	1	1	1	4	4	1
Phthalic acid aqueous	1	1	1	1	1	1	1	1	–	1
Picric acid, aqueous	2	2	1	2	1	1	1	3	2	1
Pine oil	4	4	4	2	4	4	4	–	1	1
Pipe ridine	4	4	4	4	4	4	4	4	4	4
Plating baths	4	4	2	4	4	3	4	2	2	1
Porpylene	4	4	4	4	4	4	4	4	2	1
Potash, aqueous	2	2	1	2	2	1	1	2	2	1
Potassium acetate	1	3	1	2	2	4	1	4	4	4
Potassium alum (alum), aqueous	1	1	1	2	1	1	1	2	–	1
Potassium bisulphate	1	1	1	1	1	1	1	2	2	1
Potassium borate	1	1	1	1	1	1	1	2	2	1
Potassium bromate	1	1	1	1	1	1	1	2	2	1
Potassium bromide	1	1	1	1	1	1	1	4	4	1
Potassium carbonate (potash)	1	1	1	1	1	1	1	1	1	1
Potassium chloride (sylvine)	1	1	1	1	1	1	1	1	1	1
Potassium chlorate	2	2	1	3	1	1	1	4	4	1
Potassium chromate	1	2	1	2	1	3	1	4	4	1
Potassium cyanide	2	2	1	1	1	1	1	1	1	1
Potassium cyanide	1	1	1	1	1	1	1	1	1	1
Potassium dichromate	2	2	1	2	1	1	1	3	3	2
Potassium hydroxide (caustic potash, potash lye)	2	2	1	2	1	1	1	3	3	2
Potassium iodide	2	1	1	1	1	1	1	1	1	1
Potassium nitrate (nitrate of potash)	1	1	1	1	1	1	1	1	1	1



Resistant to:	NR	SBR	IIR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Potassium perchlorate	3	3	1	3	1	1	1	4	4	1
Potassium permanganate, aqueous	1	2	1	3	1	1	1	4	4	1
Potassium persulphate	1	2	1	3	1	1	1	4	4	1
Potassium sulphate	2	2	1	1	1	1	1	1	1	1
Potassium sulphite	1	1	1	1	1	1	1	1	–	1
Propane, liquid	3	3	2	1	1	2	2	3	2	1
Propanol (propyl alcohol)	1	1	1	1	1	1	1	1	1	1
Propionic acid	3	3	2	1	1	2	2	4	4	1
Propionic carboxylic acid (butyric acid)	3	3	4	2	3	2	4	4	4	2
Propyl acetate	4	4	2	4	4	4	2	4	4	4
Propyl alcohol	1	1	1	1	1	1	1	1	1	1
Propyl amine	4	4	4	4	4	4	4	4	4	4
Propyl nitrate	4	4	2	4	4	4	2	4	4	4
Propylen oxide	4	4	2	4	4	4	2	4	4	4
Propylene glycol	1	1	1	2	1	1	1	4	4	1
Pydraul C	4	4	4	4	4	4	4	2	2	1
Pydraul E	4	4	1	4	4	4	2	2	1	1
Pyranol	4	4	4	1	4	4	4	2	1	1
Pyridine	4	4	2	4	4	4	2	3	3	3
Pyrrole	3	3	3	4	4	4	4	2	2	4
Rapeseed oil	3	3	2	1	2	2	1	1	1	1
Rapeseed oil	4	4	1	2	2	2	1	3	1	1
Sagrotan	1	1	1	2	1	1	1	1	1	1
Sal ammoniac (ammonium chloride)	1	1	1	1	1	1	1	–	–	1
Salicylic acid (0-hydroxybenzoic acid)	1	2	1	1	1	1	1	1	1	1
Seawater	1	1	1	1	1	1	1	1	1	1
Silicate ester	4	4	4	2	1	1	4	4	1	1
Silicic acid (hexafluorosilicic acid)	1	2	1	2	2	1	1	4	–	1
Silicone grease and oil	1	1	1	1	1	1	1	3	1	1
Silver nitrate (caustic silver)	1	1	1	2	1	1	1	1	1	1
Skydrol 500	4	4	2	4	4	1	1	4	4	4
Skydrol 7000	4	4	1	4	4	1	1	4	4	2
Soapy water (soap solution)	2	2	1	1	2	1	1	1	1	1
Soda lye (sodium hydroxide)	1	1	1	2	1	1	1	3	3	2
Soda, aqueous (sodium carbonate)	1	1	1	1	1	1	1	1	1	1
Sodium acetate, aqueous	1	3	1	2	2	2	1	–	4	4
Sodium benzoate, aqueous	2	1	1	1	1	1	1	1	1	1
Sodium bicarbonate, aqueous	1	1	1	1	1	1	1	1	1	1
Sodium bisulphite, aqueous	2	2	1	1	1	1	1	1	1	1
Sodium borate, aqueous	1	1	1	1	1	1	1	1	1	1
Sodium carbonate (soda)	1	1	1	1	1	1	1	1	1	1
Sodium chlorate, aqueous	3	2	1	2	1	1	1	4	4	1
Sodium chloride (table salt)	1	1	1	1	1	1	1	1	1	1
Sodium chlorite, aqueous	4	4	1	4	4	1	1	–	–	1
Sodium cyanide	1	1	1	1	1	1	1	1	1	1



Resistant to:	NR	SBR	IR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Sodium dichromate, aqueous	1	1	1	1	1	1	-	-	-	1
Sodium hydroxide (soda lye, caustic soda)	1	1	1	2	1	1	1	3	3	2
Sodium hypochlorite (bleaching liquor, Javel water)	3	3	2	2	2	2	2	2	2	1
Sodium metahosphosphate	1	1	1	1	2	2	1	-	1	1
Sodium nitrate (Chile saltpetre)	2	2	1	2	1	1	1	4	-	1
Sodium nitrite	1	1	1	3	1	1	1	4	4	1
Sodium perborate	2	2	1	2	3	3	1	2	1	1
Sodium peroxide	2	2	1	2	2	2	1	4	1	1
Sodium phosphate	1	1	1	1	1	1	1	4	-	1
Sodium silicate, aqueous	1	1	1	1	1	1	1	4	4	1
Sodium sulphate (Glauber salt)	2	2	1	1	1	1	1	1	1	1
Sodium sulphide	2	2	1	1	1	1	1	1	1	1
Sodium tetraborate (borax)	2	2	1	2	1	1	1	2	2	1
Sodium thiosulphate (antichlor, fixer)	2	2	1	2	1	1	1	1	1	1
Solution of iodine and potassium iodide, aqueous	1	1	1	2	1	1	1	2	2	1
Soybean oil	4	4	3	1	2	2	3	1	1	1
Spent sulphite liquors	2	2	2	2	2	2	2	4	2	1
Spermaceti	3	4	3	1	2	3	3	4	4	1
Spirits	1	1	1	2	1	1	1	2	1	2
Spirits (ethyl alcohol)	1	1	1	1	1	1	1	1	2	2
Spruce turpentine	4	4	4	2	4	4	4	-	1	1
Stannous chloride, aqueous	1	1	1	1	1	1	1	-	-	1
Starch, aqueous	1	1	1	1	1	1	1	1	1	1
Steam >100 °C	3	2	1	2	3	3	1	2	3	2
Stearic acid	2	2	2	2	2	2	2	1	1	1
Styrene (vinyl benzene)	4	4	4	4	4	4	4	4	4	2
Succinic acid	2	1	1	1	1	1	1	4	4	1
Sugar beet juice	1	1	1	1	1	1	1	4	1	1
Sulphur chloride	4	4	4	4	4	4	4	4	1	1
Sulphur dioxide	3	3	2	4	3	3	1	2	2	1
Sulphur hexafluoride	1	1	1	1	1	1	1	1	1	1
Sulphur trioxide	3	4	2	3	4	4	2	2	2	1
Sulphur, liquid, 60 °C	4	4	2	4	2	2	2	2	1	1
Sulphuric acid 10 %	2	2	1	3	2	1	1	3	3	1
Sulphuric acid 60 %	4	4	2	4	3	1	3	4	-	1
Sulphuric acid 95 %	4	4	4	4	4	3	3	4	-	1
Sulphurous acid	2	2	1	2	2	1	1	4	4	1
Sulphuryl chloride	3	3	2	3	3	2	2	4	4	1
Tallow	3	3	1	1	1	1	1	4	4	1
Tannic acid (tannin)	1	2	1	1	1	1	1	2	-	1
Tannin (tannic acid)	1	2	1	1	2	2	1	2	-	1
Tar	4	4	4	3	3	3	4	2	1	1
Tartaric acid	1	1	1	1	1	1	-	1	-	-
Tartaric acid (dihydroxysuccinic acid) aqueous (wine)	1	1	1	1	1	1	1	1	1	1



Resistant to:	NR	SBR	IR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Tetrabromoethane (acetylene tetrabromide)	4	4	4	4	4	4	4	4	2	1
Tetrachlormethane (carbon tetrachloride)	4	4	4	3	4	4	4	4	1	1
Tetrachloroethane (acetylene tetrachloride)	4	4	4	4	4	4	4	4	4	2
Tetrachloroethylene (perchloroethylene)	4	4	4	3	4	4	4	3	2	1
Tetraethyl lead	4	4	4	2	3	3	4	3	2	1
Tetraethyl lead	4	4	4	2	3	3	4	3	2	1
Tetrahydrofuran										
(diethylene oxide, tetramethylene oxide)	4	4	2	3	3	3	2	4	4	4
Tetrahydronaphthalene (tetraline)	4	4	4	4	4	4	4	4	1	1
Thinner	4	4	4	4	4	4	4	4	4	4
Thionyl chloride	4	4	2	4	4	2	2	4	4	1
Thiophene (thiofuran, thiol)	3	3	3	1	3	3	3	4	4	3
Tincture of iodine	1	1	2	1	2	1	2	2	2	1
Titanium tetrachloride	4	4	4	3	4	4	4	4	2	1
Toluene (methyl benzene)	4	4	4	4	4	4	4	4	2	1
Town gas	3	3	3	1	2	1	3	1	1	1
Transformer oil (petroleum base)	4	4	3	1	2	3	4	2	1	1
Transmission oil, mineral	4	4	4	1	2	2	4	2	1	1
Triacetine (glycerine triacetate)	2	3	1	2	2	2	1	1	4	4
Tributyl mercaptan	4	4	4	4	4	4	4	–	–	1
Tributyl phosphate/triethyl phosphate	2	4	1	4	4	3	1	–	4	3
Trichloroacetic acid	2	3	2	3	3	3	2	3	3	3
Trichloroethane	4	4	4	4	4	4	4	4	2	1
Trichloroethylene	4	4	4	3	4	4	4	2	2	1
Trichloromethane (chloroform)	4	4	4	4	4	4	4	3	3	2
Tricresyl phosphate	4	4	1	4	3	3	1	1	2	1
Triethanolamine (triethylolamide)	2	3	2	3	2	2	2	4	4	4
Triethyl amine	3	3	3	2	3	3	3	3	3	2
Triisopropyl benzene	4	4	4	1	4	–	4	4	–	1
Trinitrotoluene	4	4	4	4	2	2	4	–	2	2
Trioctyl phosphate	4	4	1	4	4	4	1	3	2	2
Triphen	4	4	4	4	4	4	4	4	–	1
Trisodium phosphate	1	1	1	1	1	1	1	1	1	1
Tung oil	4	4	4	1	2	2	4	4	2	1
Turbine oil, mineral	4	4	4	1	2	3	4	2	1	1
Turpentine oil	4	4	4	2	4	4	4	4	2	1
Urea, aqueous	2	3	1	2	2	2	1	4	3	3
Urea, aqueous	1	1	1	1	1	1	1	1	1	1
Urine	1	1	1	1	1	1	1	1	1	1
Vaseline oil	4	4	4	1	2	2	1	2	2	1
Vegetable oil	4	4	3	1	2	2	3	1	1	1
Vinegar	1	2	1	2	1	1	1	1	3	3
Vinyl acetate	1	4	1	1	1	1	1	4	4	1
Vinyl chloride (monochloroethylene)	4	4	4	4	4	4	2	–	–	–
Vinylidene chloride (dichloroethylene)	4	4	4	2	3	4	4	4	–	2
Washing liquors	2	2	1	1	1	1	1	1	1	1



Resistant to:	NR	SBR	IIR	NBR	CR	CSM	EPDM	MQ/VMQ	FVMQ	FKM
Water / spring water, cold	1	1	1	1	1	1	1	1	1	1
Water glas	1	1	1	1	1	1	1	1	1	1
Wax alcohol	3	–	3	1	1	3	3	–	–	1
Whisky	1	1	1	1	1	1	1	1	1	1
White liquor	3	1	2	1	1	1	2	4	4	3
White oil	4	4	4	1	2	2	4	4	1	1
Wool fat (lanolin)	2	2	3	1	2	2	3	2	1	1
Xenon	1	1	1	1	1	1	1	1	1	1
Xylol	4	4	4	4	4	4	4	4	2	1
Xylamon	3	3	3	3	3	3	3	2	3	1
Xylidine	4	4	4	3	4	4	4	4	4	4
Zeolite	1	1	1	1	1	1	1	–	1	1
Zinc acetate, aqueous	1	3	1	2	2	4	1	4	4	4
Zinc chloride, aqueous	1	1	1	1	1	1	1	–	1	1
Zinc sulphate, aqueous	2	2	1	1	1	1	1	1	1	1

The specifications provided here are only for general information and do not justify any claim to direct applicability for your use.

Therefore, we recommend that you provide us with detailed specifications about the chemical requirements.



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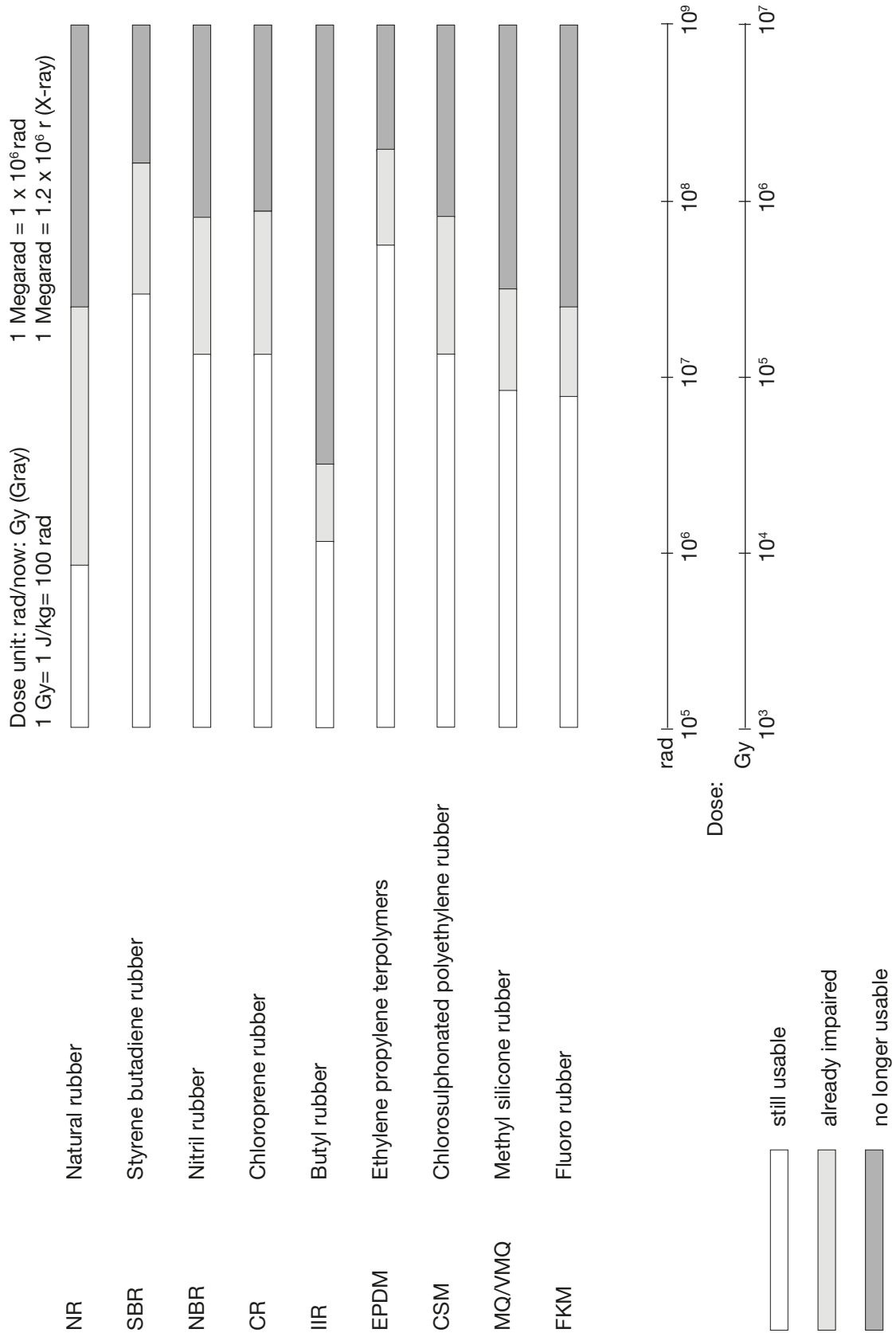
Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

Derken 8
42327 Wuppertal-Vohwinkel

8. Radiation resistance

The following list shows the service limits of different elastomers, depending on the gamma radiation dose received.





Gas permeability guideline values (permeability)

at 25 °C and 0 % relative humidity

Gas permeability constant $P = \frac{\text{cm}^3(\text{STP}) \text{ mm}}{\text{cm}^2 \text{ sec. cm Hg}}$

Considerable differences may occur, depending on the composition of the rubber blend.
STP = standard temperature and pressure at 0 °C and 76 cm mercury pressure.

Elastomer grade	Guideline value of gas permeability = $p \times 10^{10}$				
	Nitrogen N ₂	Oxygen O ₂	Carbon dioxide CO ₂	Helium He	Hydrogen H ₂
NR Natural rubber	65	250	1300	300	500
SBR Styrene butadiene rubber	65	170	1250	230	400
NBR Nitrile rubber	11	40	300	120	160
CR Chloroprene rubber	12	40	250	45	140
IIR Butyl rubber	3	13	50	70	75
EPDM Ethylene propylene terpolymers	85	250	1100		
CSM Chlorsulphonated polyethylene rubber	12	28	210	95	140
MQ/VMQ Methyl silicone rubber	2600	6000	21000		6000
FKM Fluoro rubber	4.4	15	80		

containing 27 % acrylonitrile



9. Measurement tolerances for soft rubber mouldings

Standards: DIN 7715, Part 2
ISO 3302.2

Tolerance classes:
Class M 1 – very fine
Class M 2 – fine
Class M 3 – average
Class M 4 – coarse

Within these classes, the moulding must be further differentiated according to type F and C dimensional deviations.

F = dimensions due to the mould

C = dimensions due to the mould dosing

Nominal measurement range	Class M 1		Class M 2		Class M 3		Class M 4	
	F	C	F	C	F	C	F	C
	±	±	±	±	±	±	±	±
	Permissible deviations in mm							
up to 6.3	0.10	0.10	0.15	0.20	0.25	0.4	0.5	0.5
over 6.3 to 10	0.10	0.15	0.20	0.20	0.3	0.5	0.7	0.7
over 10 to 16	0.15	0.20	0.20	0.25	0.4	0.6	0.8	0.8
over 16 to 25	0.20	0.20	0.25	0.35	0.5	0.8	1.0	1.0
over 25 to 40	0.20	0.25	0.35	0.40	0.6	1.0	1.3	1.3
over 40 to 63	0.25	0.35	0.40	0.50	0.8	1.3	1.6	1.6
over 63 to 100	0.35	0.40	0.50	0.70	1.0	1.6	2.0	2.0
over 100 to 160	0.40	0.50	0.70	0.80	1.3	2.0	2.5	2.5
	Permissible deviations in %							
over 160	0.3	*)	0.5	*)	0.8	*)	1.5	1.5

*) Values by agreement only



10. Measurement tolerances for soft rubber injection mouldings

Standards: ISO 3302
VSM 77046
DIN 7715, Part 3

Class 1 (E 1/L 1):
Finest tolerances. For sections which must satisfy very stringent requirements in respect of dimensional accuracy.

Class 2 (E 2/L 2):
Average tolerances. For sections with generally normal dimensional accuracy.

Class 3 (E 3/L 3):
Generous tolerances. For sections which do not have to satisfy any particular requirements with regard to dimensional accuracy. Microcellular rubber sections.

Cross-sectional tolerances of pressureless cured sections (injection mouldings)

Size in mm +/- mm	Class E 1 +/- mm	Class E 2 +/- mm	Class E 3 +/- mm
0 – 2.5	0.20	0.35	0.50
2.5 – 4.0	0.25	0.40	0.70
4.0 – 6.3	0.35	0.50	0.80
6.3 – 10	0.40	0.70	1.00
10 – 16	0.50	0.80	1.30
16 – 25	0.70	1.00	1.60
25 – 40	0.80	1.30	2.00
40 – 63	1)	1.60	2.50
63 – 100	1)	2.00	3.20

1) = Tolerances as agreed between the business partners.



Measurement tolerances for cut sections

Tolerances for cut sections

Nominal length in mm	Class L 1 +/- mm	Class L 2 +/- mm	Class L 3 +/- mm
0 – 40	0.7	1.0	1.6
40 – 63	0.8	1.3	2.0
63 – 100	1.0	1.6	2.5
100 – 160	1.3	2.0	3.2
160 – 250	1.6	2.5	4.0
250 – 400	2.0	3.2	5.0
400 – 630	2.5	4.0	6.3
630 – 1000	3.2	5.0	10.0
1000 – 1600	4.0	6.3	12.5
1600 – 2500	5.0	10.0	16.0
2500 – 4000	6.3	12.5	20.0
over 4000	0.16 %	0.32 %	0.50 %

Tolerances for assembled (bonded or vulcanised) sections

In the case of sectional frames:

Length tolerance: +/- 0.8 %

Tolerances for very short cut sections, such as washers, etc.

Nominal size or thickness in mm	Class EC 1 +/- mm	Class EC 2 +/- mm	Class EC 3 +/- mm
up to 1.0	0.10	0.15	0.20
1.0 – 1.6	0.10	0.20	0.25
1.6 – 2.5	0.15	0.20	0.35
2.5 – 4.0	0.20	0.25	0.40
4.0 – 6.3	0.20	0.35	0.50
6.3 – 10	0.25	0.40	0.70
10 – 16	0.35	0.50	0.80
16 – 25	0.40	0.70	1.00



technoprofil
TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

Derken 8
42327 Wuppertal-Vohwinkel

Dimensional tolerances for extruded sections of soft PVC (injection moulding)

Standard: DIN 16941

Nominal measurement range	Permissible deviation for	
	main dimension	other dimensions
0.3 to 1	± 0.1	± 0.2
over 1 to 3	± 0.2	± 0.3
over 3 to 6	± 0.3	± 0.5
over 6 to 10	± 0.4	± 0.6
over 10 to 18	± 0.5	± 0.8
over 18 to 24	± 0.8	± 1.2
over 24 to 30	± 1	± 1.5
over 30 to 50	± 2	± 3.0
over 50 to 80	± 3	± 4.5



11. Sectional rubber shapes

Selection according to force / displacement relationship – guideline values for load and elongation

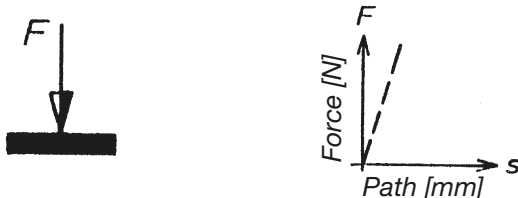
Rubber sections are used as seals in the majority of cases. A corresponding spring deflection is obtained by multiplying the contact surfaces. Since rubber cannot be compressed by the permissible deformation forces, the volume of the cross-section remains constant while the geometry changes. The deformation path is primarily determined by the hardness of the rubber, the form factor and the relationship between those not exposed to loads. Example: the deformation will be extremely small in the case of a low flat section with high form factor and correspondingly large in the cases of a 1:1 square section (low factor).

High deformation forces can only change the shape of a solid section of compact soft rubber to a very minor extent.

The spring deflection necessary to achieve the desired deformation frequently cannot be obtained in rectangular sections (e.g. lid or frame seals). The only exception here is in the case of toroidal seal in sections in which the round cross-section permits a spring deflection of up to 20 %.



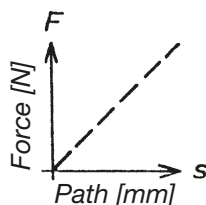
Section requires high deformation forces for little spring deflection. (Force (N)/Path (mm))



One of the following sections must be selected if the available compression forces are not sufficient for a solid section:



Section requires relatively low deformation forces for large spring deflection.





technoprofil
TP Blau GmbH

Tel.: +49 (0) 2 02 / 27 34 6-0
Fax: +49 (0) 2 02 / 27 34 6-60

E-Mail: info@technoprofil.de
web: www.technoprofil.com

Derken 8
42327 Wuppertal-Vohwinkel

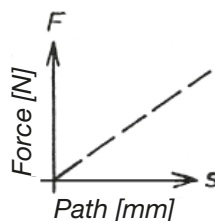
Examples: Sections for grooves and joints, fenders and piping or door, window and refrigerator seals



A large spring deflection can be obtained, for instance with lip sections of soft rubber. The lip is designed so that it is thinner on the outer side than on the inside. The sealant effect can frequently be enhanced by the pressure difference built up when the lip is pressed into place. Twin lips arranged in opposition to one another act as double seals (e. g. for pressure and vacuum), a multiple sealing effect being obtained by lips arranged in one direction (labyrinthine).



Section requires very low deformation forces for large spring deflection. (Force (N)/Path (mm))



Examples: Window sections, door sections, frame sections, sealing sections



Microcellular rubber sections are usually designed with 60 % closed pores, the remainder open. The outer skin is closed (extruded articles). Very large spring deflections can normally be obtained with minute deformation forces when microcellular rubber sections are involved. Unlike the case with homogeneous rubber sections (solid sections), the microcellular sections can be compressed in volume.

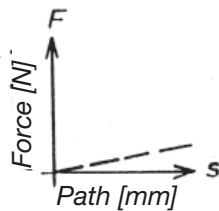
Microcellular rubber is made from both natural rubber and synthetic rubber. Only synthetic grades, such as neoprene, EPDM or silicone, are normally used for outdoor applications. In addition to the solid microcellular sections, it is also possible to produce hollow sections or lip sections, as well as combinations of both. Attention is additionally drawn in this context to the availability of two-component sections (microcellular and soft rubber in combination).



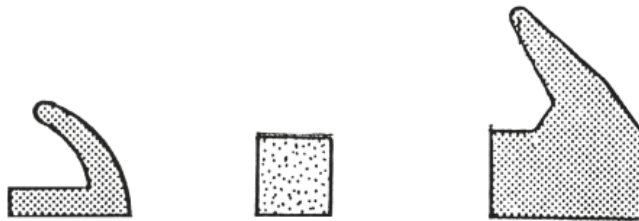
Example: Flat, rubber section with built-on microcellular tubing



The section requires very low deformation forces for very large spring deflections. (Force (N)/Path (mm))



Examples: Sections for joints, sealing sections, lid sealing sections, etc.



12. Static pressure loads

The soft rubber sealing sections must not be compressed excessively in order to prevent permanent deformation (i. e. the elasticity limits must not be exceeded).

The continuous static load on a solid soft rubber section of approx. 60 Shore a should not be allowed to exceed approx. 1 N/mm². The maximum compressive set should not exceed 20 %.

Static tensile loads

Premature ageing can be prevented, for instance, by ensuring that the rubber sections are not exposed to continuous tensile loads. If pre-stressed toroidal sealing sections or endless sections are snap-fitted into grooves, the pre-stress should not be allowed to exceed 5 %.

Joule effect: Elastomer sections exposed to tensile stresses contract at higher temperatures, leading to an increase in the existing pre-stress.



13. Connecting joints and corners of rubber sections

If soft rubber sections have to be mated as end-to-end or corner connections for assembly reasons, you should check whether adhesive bonding will suffice or whether a vulcanized bond is more appropriate.

Type of connection	Execution	Features
Butt joint	bonded	moderate tear strength, usually adequate for grooved sections, etc.
Oblique butt joint Butt joint	bonded	higher tear strength
Butt joint	in mould vulcanised	high tear strength for endless rings subject to tensile stress
Corner connection 30° or 90° mitre	bonded	moderate strength can be assembled on site
Corner connection 30° or 90° mitre	in mitre mould vulcanised	high strength cannot be assembled on site

14. Guidelines for storing soft rubber sections

If correctly stored, the elastomer parts will retain their characteristic properties for a long period of time. Incorrect storage impairs their serviceability due to premature ageing (e. g. hardening, discolouration, permanent deformation). Permanent deformations due to incorrect storage are one of the most frequent causes for complaint.

Soft rubber must never be subjected to compressive or tensile forces during storage. For instance, tightly rolled sections should not be suspended from a nail, since the permanent tensile strain due to the sections own weight would cause a permanent deformation.

DIN 7716 contains all the information required with regard to storing, cleaning and servicing rubber products.



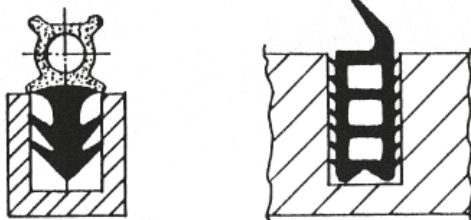
The following points are important for correct storage:

- Low temperature (+ 15 to + 25 °C)
- Relative humidity between 35 % and 65 %
- Keep wrapped to prevent exposure to light where possible
- Keep away from direct sunlight
- Store in a room without spark-generating electrical equipment (formation of ozone)
- Keep away from sheeting, etc. containing plasticizers
- Keep away from copper
- Prevent contact between individual rubber parts
- Ensure that the bending radii of rolled sections are not too tight
- Do not stack the products too high
- Fine edge-protecting sections, etc. should be laid out straight

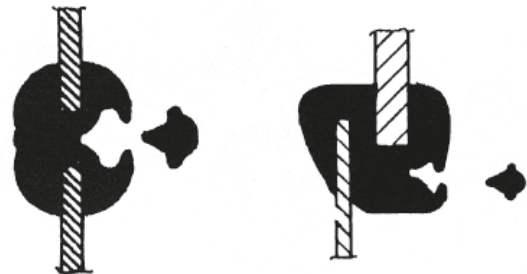
15. Means of fastening rubber sections

Correctly functioning sections should be installed as simply and carefully as possible, the nature of the fastening or anchorage depending on the requirements imposed on the connection.

Pressing into place



Clamping into place



Drawing into place



Snap-fitting



Nailing into position



Screwing into position



Bonding

