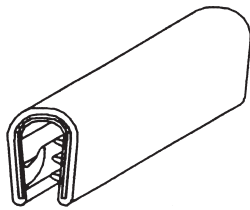


Sponge Rubber Profiles

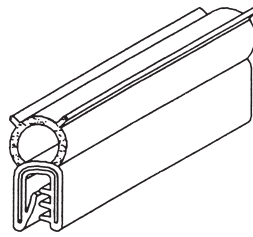


Our complete Delivery & Manufacturing Program

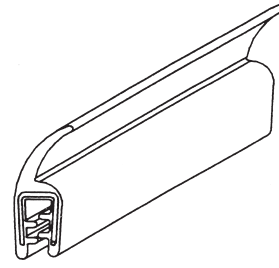
- Edge protection profiles, sealing profiles with and without metal carrier
- Rubber glazing and filler profiles
- Rubber, expanded rubber profiles
- Fastening elements for car seating upholstery and retainers
- Custom-made products, frames, rings, custom lengths, profiles with flock coating or spray coating, etc.



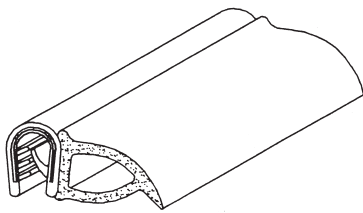
Edge protection profiles



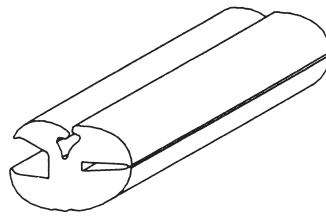
Sealing profiles



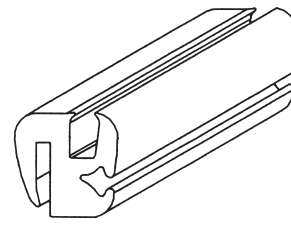
Sealing profiles



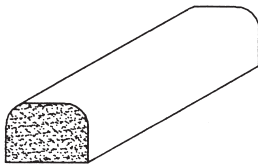
Sealing profiles



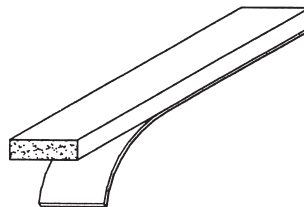
Glazing profiles



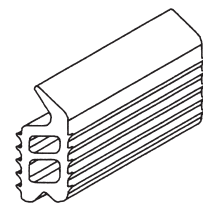
Slip-on profiles



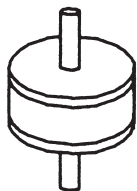
Sponge rubber profiles



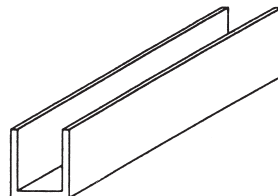
Self-adhesive expanded rubber



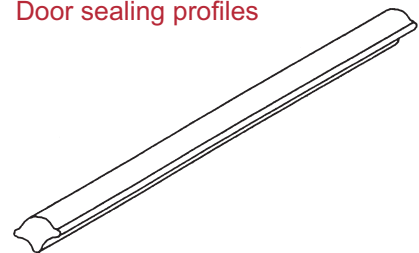
Door sealing profiles



Rubber metal buffer



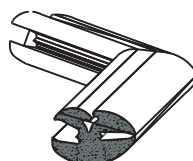
Edging profiles



Filler profiles



PVC-profile without wire carrier



Vulcanised corner profile



Draw-cord fastening of car seat upholstery

Please ask for our complete Delivery & Manufacture catalogue.

Sponge Rubber Profiles

from EPDM, CR, NBR, NR in black or light grey

Sponge rubber

Sponge rubber is a cellular, softly elastic material made of caoutchouc. During vulcanization the material inflates forming a partly open and partly closed cell structure as well as on its surface, a compact outer membrane.

The specific weight of sponge rubber varies according to its quality from 0.4 to 0.8 gram per cm³. Sponge rubber is produced among others from Natural Rubber (NR), Chloroprene Rubber (CR), Nitrile-Butadiene Rubber (NBR) or Ethylene-Propylene-Diene Monomer (EPDM). The choice of an elastomer quality should be guided by its

use and the requirements of the end product.

Sponge rubber products are manufactured in many different processes either by vulcanization in moulds or by extrusion.

Moulded parts or profiles of sponge rubber are light and resistant. Today, sponge rubber products or profiles combined with other rubber qualities or materials such as PVC, are used whenever sealing requirements are most important.

Round, semi-round and square cords as well as special profiles

All sponge rubber profiles available have a normal compact outer membrane. For compliance with precise length measurements, reinforced sponge rubber profiles with polyester fabric

are also deliverable. Thereby the profiles (sections) are decisive for the production potentials.

Factory tolerance DIN ISO 3302-1, E3, L3.

All square cord sponge rubber profiles can be equipped with self-adhesive for easier assembly. Profiles with Acrylic Foam adhesion are available upon request.

Profile Solutions to *Fit!*

Please ask for our expert advice!

DQS certification



Reg-No. 66247

Elastomer Varieties

Natural Rubber (NR)

Harvested as latex from the *Hevea brasiliensis*, polymerized with sulfur. Temperature range: -40 to +80°C.
Advantages: Good elasticity and mechanical properties (tear and abrasion resistance, notch

toughness, elasticity), no remaining deformation after strain, high resistance to alternating bending.
Disadvantages: Medium to low resistance to oil, weather and ozone as well as thermal resistance; flammable.

Ethylene-Propylene-Diene Monomer (EPDM)

Synthetic caoutchouc, terpolymers (EPDM polymerized with sulfur). Temperature range: -40 to +120°C dry conditions; with water and steam up to 130°C.
Advantages: As well as to ageing, ozone, chemicals, hot water and steam, good resistance to polar fluids such as acetone, metha-

nol etc., outstanding electrical insulation properties, low steam permeability, good thermal resistance, extremely low brittleness temperature.
Disadvantages: Low resistance against aliphatic and aromatic hydrocarbons (mineral oil, petrol, fuels); flammable.

Polychloroprene (CR)

Synthetic caoutchouc mostly polymerized with metal oxides, not sulfur. Temperature range: -25 to +100°C, hot water not recommended.
Advantages: Good thermal resistance as well as to ageing, weather, ozone, low flammability, high resistance to alternating bend-

ing, medium resistance against oil (higher than NR, lower than nitrile rubber; good mechanical properties and elasticity, but not as good as for NR; small deformation remaining.
Disadvantages: According to the type of CR, possibility of crystallization, due to lasting cold.

Nitrile Rubber (NBR)

Synthetic caoutchouc, Polyacryl-Nitrile-Butadiene rubber polymerized with sulfur. Temperature range: -30 to +100°C with dry conditions, hardens with hot air, with oils up to +120°C, with water up to +80°C.
Advantages: High oil, petrol and thermal re-

sistance, good mechanical toughness, low remaining deformation under pressure.
Disadvantages: Very low weather and ozone resistance, low elasticity, flammable.

Factory standard based on DIN ISO 3302-1

Tolerances for custom lengths class L3

Nominal range	in mm		class	L3
				+/-
	up to	40		1,6 mm
over	40	to 63		2,0 mm
over	63	to 100		2,5 mm
over	100	to 160		3,2 mm
over	160	to 250		4,0 mm
over	250	to 400		5,0 mm
over	400	to 630		6,3 mm
over	630	to 1000		10,0 mm
over	1000	to 1600		12,5 mm
over	1600	to 2500		16,0 mm
over	2500	to 4000		20,0 mm
over	4000			0,5 %

Sponge rubber profiles (sections) class E3

Nominal range	in mm		class	E3
				+/-
	up to	2,5		0,5 mm
over	2,5	to 4,0		0,7 mm
over	4,0	to 6,3		0,8 mm
over	6,3	to 10,0		1,0 mm
over	10,0	to 16,0		1,3 mm
over	16,0	to 25,0		1,6 mm
over	25,0	to 40,0		2,0 mm
over	40,0	to 63,0		2,5 mm
over	63,0	to 100,0		3,2 mm

Elastomer-Material Properties

++ = excellent to very good

+ = good

○ = satisfactory to moderate

- = low to poor

Basic Elastomer	Trademark	Thermal Behaviour					Physical Properties			
		Lowest application temperature °C	Highest application temperature				Remaining deformation	Combustion behaviour	Weathering and ozone resistance	Gluing properties
			dry °C	water °C	oil °C	steam °C				
Natural Rubber (NR)	Crepe Sheets SMR 5 CV	-40	+80	+70	-	-	++	○	○	++
Ethylen Propylene-Diene Monomer (EPDM)	Keltan Vistalon Nordel Buna AP	-40	+120	+120	-	+120	+	○	++	○
Chloroprene (CR)	Baypren Neoprene	-25	+100	-	-	-	+	+	+	++
Acryl-Nitrile-Butadiene-Rubber (NBR)	Perbunan N	-30	+100	+80	+120	-	+	○	○	+
Styrol-Butadiene-Rubber (SBR)	BUNA EM	-30	+80	+70	-	-	+	○	○	+

Basic Elastomer	Trademark	Resistance to Fluid Media								
		Water	Detergents	Acids	Lye solutions	Oils	Petrols	Organic solutions		
								aliphatic hydrocarbons	aromatic hydrocarbons	Ketone
Natural Rubber (NR)	Crepe Sheets SMR 5 CV	+	+	○	○	-	-	-	-	○
Ethylene-Propylene Diene Monomer (EPDM)	Keltan Vistalon Nordel Buna AP	++	+	+	+	-	-	-	-	+
Chloroprene (CR)	Baypren Neoprene	+	+	+	+	○	○	○	-	-
Acryl-Nitrile-Butadiene-Rubber (NBR)	Perbunan N	+	+	+	○	+	+	+	○	-
Styrol-Butadiene-Rubber (SBR)	BUNA EM	+	+	+	+	-	-	-	-	○

Let us advise you.

Our application technology details are effected by best knowledge. They apply merely as non-binding advice. They do not excuse you from double checking all of our delivered products in terms of the aptitude for the intended application.

Requirements for storage, cleaning and maintenance (based on DIN 7716)

1 Field of Application

1.1 The following requirements apply to products made of rubber in pure form and in combination with other substances, and in particular to elastomers of natural rubber and / or synthetic rubber and to unvulcanised rubber mixtures, to adhesives and to solutions containing rubber.

1.2 The requirements according to clauses 3 and 4 primarily apply to long term storage (in general longer than 6 months).

The specifications of this standard, apart from the general requirements of store rooms according to clauses 3 and 3.1 can be appropriately applied to short-term storage (less than 6 months) - such as, for example, in production and distribution stores with a continuous flow of materials - as long as the appearance and functioning of the products do not thereby undergo adverse changes.

2 General

The physical properties of most rubber products change under adverse storage conditions or with inexpert treatment. The life may thereby be shortened, and the products may become useless, for example due to excessive hardening, softening or permanent deformation or due to flaking, cracks or other surface damage. The changes can be caused by the effects of, for example, oxygen, ozone, heat, light, moisture, solvents or storage under stress. Properly stored and treated rubber products remain almost unchanged in their properties over a long period (some years). This does not apply, however, to unvulcanised rubber mixtures.

3 Store room

The store room should be cool, dry, relatively free from dust and moderately ventilated. Storage in the open air, unprotected from weathering, is not acceptable.

3.1 Temperature

The temperature for the storage of rubber products depends on the goods to be stored and the elastomers used.

Rubber products should not be stored below - 10 °C or above +15°C; the upper limit may be exceeded to up to +25°C. Even higher temperatures are acceptable for only a short time. In deviation thereof, a storage temperature

which should not be lower than +12°C may be necessary for rubber products of certain types of rubber, e.g. chloroprene rubber.

The most advantageous storage temperature for unvulcanised rubber products and mixtures and for adhesives and solutions is between +15°C and +25°C. Higher temperatures shall and lower temperatures should be avoided. Adhesives and solutions may not be stored below 0°C.

Stiffening or a reduction in adhesive power may occur in products which have been exposed to low temperatures during storage and on transportation. These products should be brought to temperatures of +20°C or more for a prolonged period before use or further processing. This is the best done in the packaging, because precipitation of moisture on the product itself is thereby avoided.

3.2 Heating

In heated store rooms, the rubber products should be shielded from the source of heat. The distance between the source of the heat and the stored goods shall be at least 1 m. A greater distance is necessary in rooms heated by hot air.

3.3 Moisture

Storage in humid store rooms should be avoided. Care should be taken that no condensation forms. A relative atmospheric humidity below 65% is most advantageous.

3.4 Illumination

The products should be protected from light, especially from direct sunlight and from strong artificial light with a high ultraviolet content. For this reason, the windows of the store room should be given a protective coat of red or orange-coloured (never blue) paint. Illumination with normal incandescent lamps is to be preferred.

3.5 Oxygen and ozone

The products should be protected from a change in air, in particular from draughts, by wrapping, by storage in air-tight containers or by other means. This relates above all to articles with high surface area in relation to volume, e.g. rubberized materials or cellular articles.

Since ozone is particularly harmful, the store rooms should contain no devices at all which produce ozone, such as, for example, electric motors or other apparatuses which may produce sparks or electrical discharges. Combustion gases and vapours which may lead to ozone formation by photochemical processes should be eliminated.

3.6 Other conditions

Solvents, fuels, lubricants, chemicals, acids, disinfectants etc. should not be stored in the store room. Rubber solutions should be stored in a special room, observing the official provisions on the storage and transportation of combustible liquids.

4 Storage and handling

Care should be taken that the products are stored under stress-free conditions, i.e. without tension, pressure or other deformations, since stresses promote both permanent deformation and cracking. (o rings, for example, should not be stored suspended on hooks). Certain metals, in particular copper and manganese, have harmful effect on rubber products. The products should therefore not be stored in contact with these metals, but must be protected by packaging or by sealing with a layer of a suitable material. Suitable materials are, e.g., antistatic films or bags made of paper, polyethylene or polyamides (nylon).

The materials of the container for the packaging and sealing material should contain no constituents which are harmful to the products, e.g. copper or copper-containing alloys, petrol, oil and the like. Films containing plasticizer should not be used for the packaging.

If products are powdered, the powder should contain no constituents which are harmful to the products. Suitable materials for powdering are talc, diluvial chalk, fine-grained mica powder and rice starch.

Contact of products of different composition with one another should be avoided. This particularly applies to rubber products in different colours.

The products should remain in storage for as short a time as possible. In the case of long-term storage, care should be taken that newly arriving products are stored separately from already existing products.

5 Cleaning and maintenance

Rubber products can be cleaned with soap and warm water. The cleaned articles should be dried at room temperature. After relatively long storage (6 to 8 months) the products can be cleaned with a 1.5% sodium bicarbonate solution. Residues of the cleaning liquid should be rinsed off with water. Effective and particularly mild cleaning agents are recommended by the manufacturer.

Solvents such as trichloroethylene, carbon tetrachloride and hydrocarbons should not be used for cleaning. The use of sharp-edged objects, wire brushes, emery paper etc. is also prohibited here.

Processing instructions for self-adhesive products

Application area: Profiles equipped with self-adhesive foil are used when there is no possibility to fix the profile form-fit to an apparatus construction during assembling.

Processing instruction: To obtain ideal fixation, the surfaces have to be clean, dry and as even as possible.

In order to prevent poor adhesion by contamination, the removal of the protection film should be removed immediately before application.

When removing the protection film, pay attention not to separate the double-sided adhesive foil from the sponge rubber profile.

The full-surface contact is crucial for a good fixation of the profile. The contact can be intensified by pressure.

According to our longtime experience, the fixing profile should not hang more than 30 minutes without assistance during assembling (especially in case of vertical application).

Storage: Up to 6 months after delivery in unopened original cartons at 20°C and 50% air moisture.

Important Advice: All of the above named details, technical information and commendations are based on laboratory investigations. Those are implemented according to best knowledge. However, there is no warranty for accuracy and completeness. Before using, please check the adequacy of our product in terms of its application for your purpose.

In case of important or extreme applications, practical tests have to be arranged.

The product is designed as an assembling assistance rather than a permanent adhesion.

Durability of the self-adhesive product: maximal 6 months

Processing instructions for acrylic-foam products

- Application area:** In- / outside applications within the automotive area where high cohesive power combined with excellent shock and weather resistance is required.
- Processing instruction:** To obtain ideal adhesion, the surfaces have to be clean, dry and as even as possible. Also, they should fit to each other.
- The full-surface contact is decisive for a good fixation of the profile. Here, you have to pay attention, not to fix the profile under tension. The contact can be intensified by pressure. In practise, a pressure about 10 to 15 N is necessary. The adhesion should be effected by at least 18°C.
- The initial adhesion rises by and by, so that a permanent high binding power will be achieved.
- According to our longtime experience, there should not be put weight on before 8 hours after application.
- Storage:** Up to 6 months after delivery in unopen original cartons at 20°C and 50% air moisture.
- Important Advice:** All of the above named details, technical information and commendations are based on laboratory investigations. Those are implemented according to best knowledge. However, there is no warranty for accuracy and completeness. Before using, please check the adequacy of our product in terms of its application for your purpose.
- In case of important or extreme applications, practical tests have to be arranged.

Durability of the self-adhesive product: maximal 6 months

Round Cords

● available
 - upon request

Dimensions mm	Bulk length m	EPDM black	EPDM light-grey	CR black
2,0	200	●	●	●
2,5	200	●	●	-
3,0	200	●	●	●
3,5	200	●	●	-
4,0	200	●	●	●
4,5	200	●	●	-
5,0	200	●	●	●
6,0	200	●	●	●
7,0	200	●	●	●
8,0	200	●	●	●
9,0	200	●	●	-
10,0	100	●	●	●
11,0	100	●	●	-
12,0	100	●	●	●
13,0	50	●	●	-
14,0	50	●	●	-
15,0	50	●	●	●
16,0	50	●	●	●
18,0	25	●	●	●
20,0	25	●	●	●
22,0	25	●	●	●
25,0	25	●	●	●
30,0	20	●	●	●
35,0	20	●	●	●
40,0	20	●	●	-
45,0	10	●	●	-
50,0	10	●	●	-

Delivery time: immediately if on stock; subject to being sold.
 Other colours, quantities and sections upon request. Design modifications reserved.

Square Profile Cords

● available
 - upon request

Dimensions mm	Bulk length m	EPDM black	EPDM light-grey	CR black	Self-adhesive on broader side
2x8	100	●	●	●	●
2x10	100	●	●	●	●
2x15	100	●	●	●	●
2x20	100	●	●	-	●
2x25	50	●	●	-	●
2x50	50	●	●	-	●
3x5	100	●	●	-	●
3x10	100	●	●	●	●
3x15	100	●	●	●	●
3x18	100	●	●	●	●
3x20	100	●	●	●	●
3x30	50	●	●	●	●
3x40	100	●	●	●	●
3x50	50	●	●	-	●
4x6	100	●	●	-	●
4x8	100	●	●	●	●
4x10	50	●	●	●	●
4x12	50	●	●	●	●
4x15	100	●	●	●	●
4x20	100	●	●	●	●
4x25	50	●	●	-	●
4x30	50	●	●	●	●
4x40	50	●	●	-	●
4x50	50	●	●	-	●
5x5	100	●	●	●	●
5x10	100	●	●	●	●
5x12	100	●	●	●	●
5x15	50	●	●	●	●
5x20	50	●	●	●	●
5x25	50	●	●	●	●
5x30	50	●	●	●	●
5x40	50	●	●	●	●
5x50	25	●	●	●	●
5x60	25	●	●	-	●
6x6	100	●	●	●	●
6x10	50	●	●	●	●
6x12	50	●	●	●	●
6x15	100	●	●	●	●
6x20	50	●	●	●	●
6x25	50	●	●	●	●
6x30	50	●	●	-	●

Delivery time: immediately if on stock; subject to being sold. Self-adhesive equipment ~ 2 weeks.
 Other colours, quantities and sections upon request. Design modifications reserved.

Square Profile Cords

● available
- upon request

Dimensions mm	Bulk length m	EPDM black	EPDM light-grey	CR black	Self-adhesive on broader side
6x35	25	●	●	●	●
6x40	25	●	●	-	●
6x50	25	●	●	-	●
7x10	50	●	●	-	●
7x15	50	●	●	-	●
7x20	50	●	●	-	●
8x8	50	●	●	●	●
8x10	50	●	●	●	●
8x12	50	●	●	●	●
8x15	50	●	●	●	●
8x16	50	●	●	●	●
8x18	50	●	●	●	●
8x20	50	●	●	●	●
8x25	50	●	●	●	●
8x30	50	●	●	●	●
8x40	50	●	●	-	●
8x50	50	●	●	-	●
9x16	50	●	●	-	●
9x23	50	●	●	-	●
10x10	25	●	●	●	●
10x12	25	●	●	●	●
10x15	50	●	●	●	●
10x16	50	●	●	●	●
10x18	50	●	●	●	●
10x20	50	●	●	●	●
10x25	50	●	●	●	●
10x30	25	●	●	●	●
10x35	25	●	●	●	●
10x40	25	●	●	●	●
10x50	25	●	●	●	●
10x60	25	●	●	-	●
10x70	50	●	●	-	●
11x11	50	●	-	-	●
11x17	50	●	-	-	●
12x12	50	●	●	●	●
12x15	50	●	●	●	●
12x20	50	●	●	●	●
12x25	50	●	●	●	●
12x40	50	●	●	-	●
15x15	50	●	●	●	●
15x20	25	●	●	●	●

Delivery time: immediately if on stock; subject to being sold. Self-adhesive equipment ~ 2 weeks.
Other colours, quantities and sections upon request. Design modifications reserved.

Square Profile Cords

● available
 - upon request

Dimensions mm	Bulk length m	EPDM black	EPDM light-grey	CR black	Self-adhesive on broader side
15x25	25	●	●	●	●
15x30	25	●	●	●	●
15x35	25	●	●	-	●
15x40	50	●	●	●	●
15x45	25	●	●	-	●
15x50	25	●	●	-	●
16x30	25	●	●	●	●
18x18	25	●	●	●	●
18x25	25	●	●	●	●
20x20	25	●	●	●	●
20x25	25	●	●	●	●
20x30	25	●	●	●	●
20x40	25	●	●	●	●
20x45	25	●	●	-	●
20x50	25	●	●	●	●
20x60	10	●	●	●	●
25x25	25	●	●	●	●
25x30	25	●	●	●	●
25x35	25	●	●	-	●
25x40	25	●	●	●	●
30x30	20	●	●	●	●
30x40	15	●	●	●	●
30x50	15	●	●	●	●
40x40	10	●	●	●	●
40x50	10	●	●	-	●
45x50	10	●	●	-	●
50x50	10	●	●	-	●

Square Profile Cords

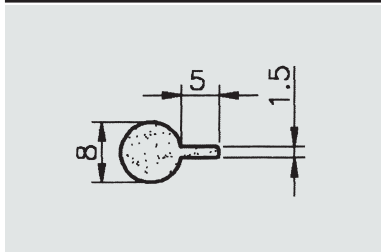
Sponge Rubber Profiles

All square cord sponge rubber profiles can be equipped with self-adhesive for easier assembly. Profiles with Acrylic Foam adhesion are available upon request.

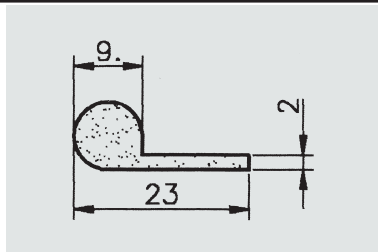
Delivery time: immediately if on stock; subject to being sold. Self-adhesive equipment ~ 2 weeks.
 Other colours, quantities and sections upon request. Design modifications reserved.

Special Profiles

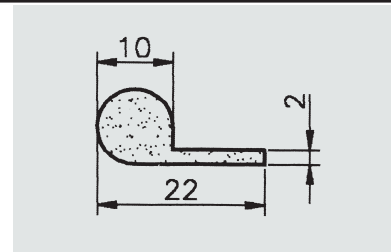
EPDM - black



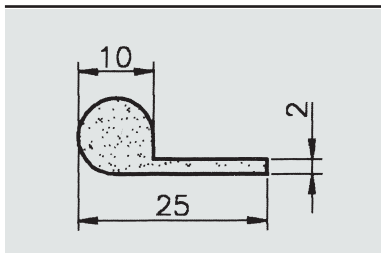
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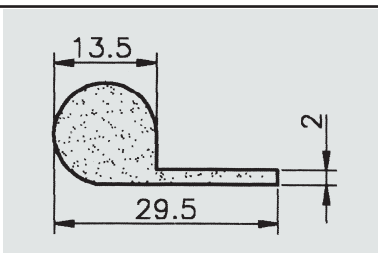
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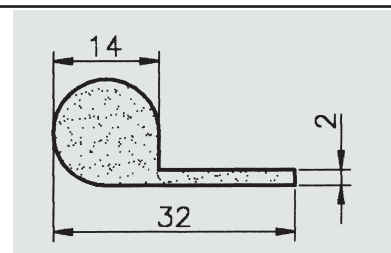
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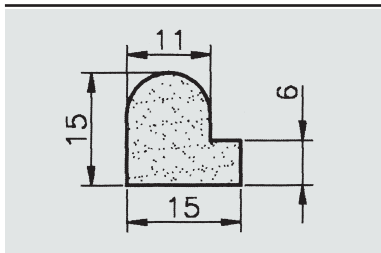
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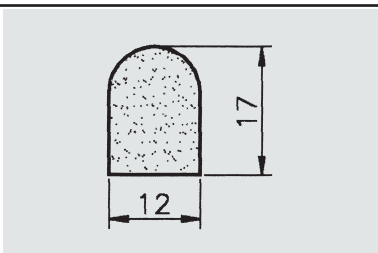
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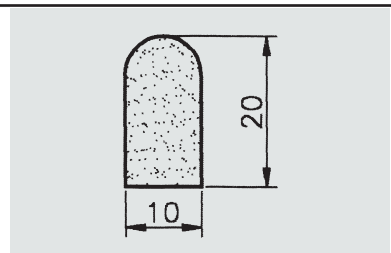
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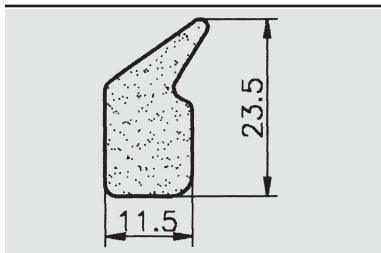
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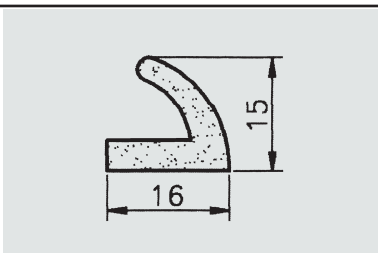
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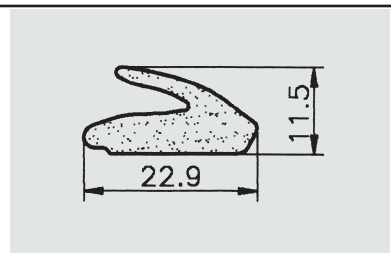
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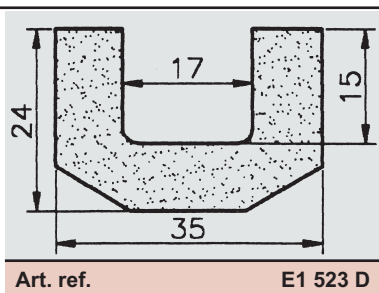
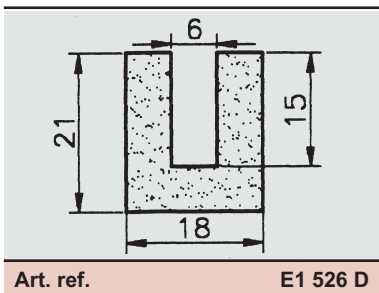
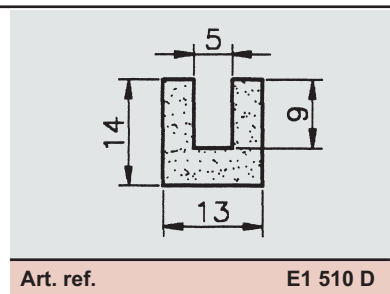
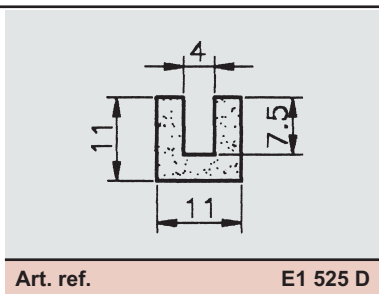
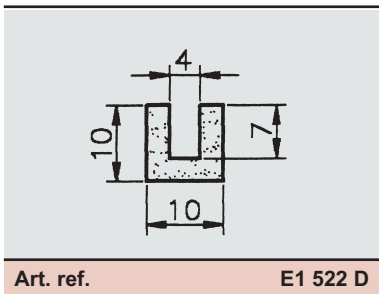
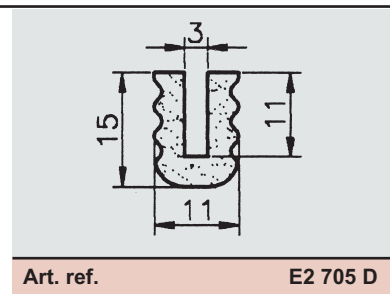
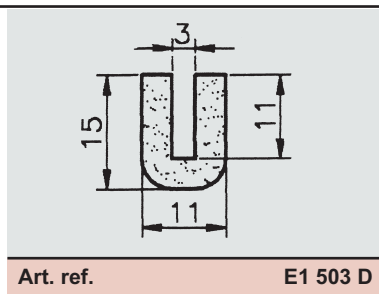
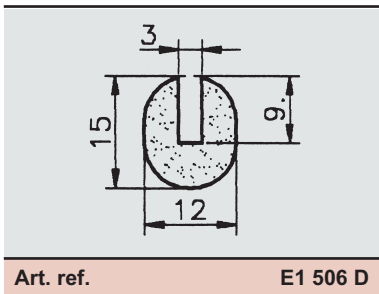
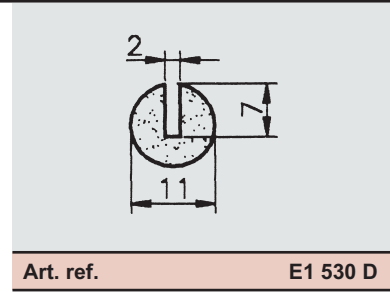
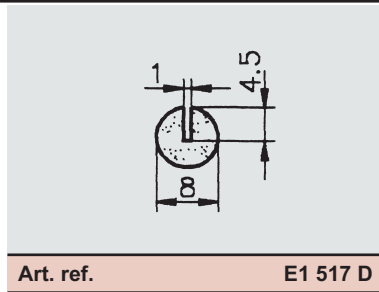
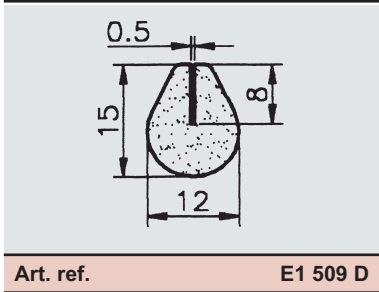
Art. ref. # E1 524 D



Art. ref. # E1 501 D

Special Profiles

EPDM - black



Other colours and materials upon request. Design modifications reserved.

Special Profiles

● on stock
 - upon request

Article reference	Bulk length m	EPDM black	EPDM light-grey
E1 500 D	50	●	-
E1 501 D	50	●	-
E1 503 D	50	●	-
E1 504 D	50	●	-
E1 506 D	50	●	-
E1 509 D	50	●	-
E1 510 D	50	●	-
E1 511 D	50	●	-
E1 512 D	25	●	-
E1 514 D	25	●	-
E1 515 D	50	●	-
E1 516 D	100	●	-
E1 517 D	50	●	-
E1 519 D	50	●	-
E1 520 D	50	●	-
E1 521 D	50	●	-
E1 522 D	50	●	-
E1 523 D	15	●	-
E1 524 D	50	●	-
E1 525 D	50	●	-
E1 526 D	50	●	-
E1 530 D	50	●	-
E2 705 D	100	●	-

Delivery time: immediately if on stock; subject to being sold. Self-adhesive equipment ~ 2 weeks.
 Other colours, quantities and sections upon request. Design modifications reserved.

Standard Terms and Conditions of Sale

1. Exclusive Applicability and Recognition of our Standard Terms and Conditions of Sale

1.1 All offers made by us shall be subject to our Standard Terms and Conditions of Sale. We only accept orders on the aforesaid Standard Terms and Conditions. General terms and conditions of the Buyer and ancillary agreements which deviate from our Standard Terms and Conditions of Sale shall only be binding if we have expressly recognised them in writing.

The following terms and conditions shall apply exclusively for the sale of all products in our production and distribution range. The aforesaid terms and conditions govern all legal relationships concerning the sale unless otherwise agreed in writing. Terms and conditions of business contrary to our terms and conditions must be expressly confirmed by us in writing in order to be valid.

1.2 With the order placement and acceptance of deliveries, the Buyer recognises the applicability of our Terms and Conditions of Sale not only for the business transaction in question, but also for all future business transactions.

2. Offers, Orders and Deliveries

2.1 Offers: Our offers are subject to change without notice. Documents forming part of the offer such as illustrations and drawings, etc., shall only be regarded as precise as far as dimensions and weights are concerned if this has been expressly confirmed in writing. We shall reserve the proprietary right and copyright to such documents. They may not be made available to third parties without our consent. They are to be returned to us immediately if no order is placed.

2.2 In cases of doubt, our written order acknowledgement shall be exclusively authoritative for the details of the contract.

2.3 In case of make and hold orders in which the bulk order contract does not specify any fixed buying period, the complete bulk order quantity has to be bought within 2 years.

2.4 We shall reserve the right to refuse orders without providing reasons or to deliver on a c.o.d. basis.

3. Telephonic Orders

Telephonic orders shall be immediately confirmed by the Customer in writing. We shall assume no liability for the correctness of deliveries based on telephonic orders.

4. Scope of the Delivery Obligation

Our written or acknowledgement based on the order shall apply for the scope, type and date of delivery. Over- or under-deliveries of up to 10% of the ordered quantity shall not be rejected by the Customer. Part-deliveries shall be permitted. Unless otherwise agreed in the contract, the Customer must forward a delivery allocation schedule to us at least 4 weeks prior to the agreed delivery date.

5. Dispatch

Unless we receive special dispatch instructions, we shall ship goods by the most economical dispatch route at our discretion. Goods shall be dispatched for the account and at the risk of the Buyer even if we execute the transport function with our own vehicles or if we bear or prepay the transport costs.

6. Delivery Date

We shall make every effort to comply with agreed delivery dates. If we are, however, prevented from complying with such delivery dates as a result of unforeseeable circumstances which we could not avert despite reasonable care based on the circumstances of the individual

case, e.g. labour disputes, commotion, actions by the authorities, production stoppages, delays with the delivery of major raw materials and supplies, the delivery period shall be reasonable extended without it being possible for claims to be made against us as a result of the above.

If the aforesaid circumstances occur at the Customer's, the same legal consequences shall apply for his acceptance obligation.

7. Prices

The prices in force on the date of delivery shall apply unless otherwise agreed. Freight, packaging, insurance, customs duty and other expenses, including expenses for the payment of documents required for the importation of goods into the country of destination shall be borne by the Buyer.

All prices are stated exclusive of value-added tax.

8. Payment

8.1 We shall issue an invoice as soon as the ordered goods are ready for despatch or collection. Despatch delays in the collection of goods which are not attributable to us shall not postpone the due date of the relevant invoice.

8.2 Our invoices are payable within one week with 2% cash discount or within 30 days net, in both cases with effect from the invoice date.

8.3 Deviations shall only be accepted with a written confirmation.

8.4 Bills of exchange are not accepted by us as a means of payments. Cheques are only accepted by us as conditional payment.

8.5 If we accept cheques or bills of exchange, this shall always be done as conditional payments but not as settlements. In such cases, we are not responsible for due presentation or protesting. Discount, taxation and collection costs shall be for the account of the Buyer. The Buyer shall reimburse us the aforesaid amount immediately upon request. If the Buyer defaults with the payment of the purchase price, interest shall be charged on the relevant debt at a rate equivalent to 8% above the discount rate of the ECB. We shall reserve the right to make deliveries on a c.o.d. basis. Tooling costs shall be payable net upon submission of the reference sample.

9. Reservation of Title

We shall retain our title to the delivered goods as long as claims arising from the business connection with the Buyer have not been settled in full. In the event of adaptation or processing of goods delivered by us, any acquisition of title by the Buyer shall be excluded. Adaptation or processing work shall be carried out for us in such a way that we are to be regarded as manufacturer. If the delivered goods are processed with other good from another source which are also subject to a reservation of title extending to processing of the said goods, we shall acquire co-ownership in the new chattel in the ratio of the invoice value of our goods compared with the value of the other goods at the time of processing.

All claims of the Buyer arising from a resale of goods in which we have a title or co-title shall pass to us upon the conclusion of the sale contract, regardless whether the goods are sold without or with adaptation or processing, combination or intermingling and regardless of whether they are sold to one or several buyers. If the sold goods do not belong to us in full or if they are sold together with goods not belonging to us, the assignment shall only include the counterclaim in the amount of the invoice value of our goods. If the Buyer is in default in whole or in part with the settlement of a liability secured by

the reservation of title, or if we become aware of circumstances which indicate that our rights could be endangered, we shall be entitled to demand a return of the goods delivered by us without declaring the prior withdrawal from the sale contract in accordance with § 449 of the German Civil Code (BGB) or without having set a period of grace for the settlement of payment obligations in accordance with § 223 BGB. The validity of the sale contract and the obligations of the Buyer shall remain unaffected by the aforesaid request and by the return of the goods in question.

At the request of the Buyer, we shall, at our choice, be obliged to release securities to which we are entitled on the basis of the above rulings (goods and claims) if their value exceeds the claims to be secured by more than 20 percent.

10. Tools Dies and Production Equipment

Pressing and injection moulds, or any other moulds and tools which are produced by us or by any other party on our behalf shall basically remain our property in view of the design performance.

If no subsequent order is received within 2 years of the execution of the last order, and if no subsequent order is anticipated, we shall be entitled to dispose of the tools, dies or any other equipment at our discretion.

11. Warranty

We shall assume the following warranty to the Buyer:

11.1 We guarantee a lack of defects in the materials and workmanship in line with the latest state of the art for a period of 12 months with effect from the date of delivery of the goods to the Buyer.

In case of a justified notice of defects - the reference samples released by the Buyer in writing determining the expected quality and execution - the supplier is compelled to remedy.

The supplier has the right either to eliminate the defect or to deliver a good without defect. If the supplier does not comply with this obligation within due time or if the attempt to remedy fails repeatedly, the Buyer has the right to diminish the buying price or to retreat from the contract. Further claims, mainly claims of compensation for expenses or claims of damage compensation due to defect or resulting from a defect, arise if and only if a damage to life, body or health is attributed. The liability without fault according to the law relative to „Liability for Defective Products“ remains unaffected. The liability for the faulty contravention against major contract obligations remains unaffected, too. However, the liability remains restricted, except for cases mentioned in § 1, to the foreseeable, typical contract-related damage. A change of burden of proof at the expense of the Buyer is implied by the aforesaid regulations.

11.2 If we expressly recognize a warranty case, the costs of the cheapest form of transport shall be for our account. Basically, no additional costs are assumed on account of the fact that the goods were taken outside the Federal Republic of Germany.

11.3 Additional claims shall be excluded.

11.4 All warranty claims shall lapse in the event of improper handling, storage, return goods not sent in their original packaging and processing with unsuitable materials.

11.5 If rubber profiles are delivered, the guidelines specified in DIN 7716 shall apply for the storage, servicing and cleaning of goods. We shall assume no liability for damages caused by non-compliance with the aforesaid regulation.

11.6 The current DIN standards for thermoplastics and elastomers shall apply for the dimensions of the cross-section and lengths.

11.7 Warranty claims shall only be taken into account if they are immediately notified to us in writing after a defect has been established.

11.8 We shall assume no liability for the ordered goods being suitable for the intended purpose of the Buyer. Such an examination shall be the responsibility of the Buyer. We shall not be liable for errors attributable to documents which were incorrectly submitted.

12. Other provisions

12.1 Place of performance and legal venue

The place of performance for deliveries or services to be performed is the domicile of the delivery plant in question.

The legal venue is Aschaffenburg.

12.2 Applicable law

The statutory regulations of the Federal Republic of Germany shall irrevocably apply unless otherwise agreed.

12.3 Partial invalidity

If one of the provisions included in these Terms and Conditions or connected with an order in any other way are invalid, the validity of the other provisions shall remain in full force and effect. The invalid provision shall be replaced by a valid provision which comes as close as possible to the original intention of the invalid provision.

13. Data Processing Authority

We shall be entitled to process all data relating to the Buyer protected by law within the scope of the relevant legal regulations.



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