

Materials Inflatable seals



Material	EPDM	NBR	NR	CR	Silikon	HNBR	IIR	SBR
Hardness range (Shore A)	25 - 90	40 - 90	20 - 90	30 - 90	20 - 85	50 - 90	35 - 85	30 - 90
Operating temperature (°C)	-40 to +120	-20 to +100	-40 to +80	-20 to +100	-60 to +200	-40 to +150	-30 to +130	-30 to +80
Mechanical strength	good	good	very good	good	sufficient	good	good	good
Tear resistance	sufficient	satisfactory	very good	good	sufficient	satisfactory	satisfactory	good
Abrasion resistance	satisfactory	good	very good	good	sufficient	good	sufficient	very good
Weathering / Ozone resistance	very good	satisfactory	sufficient	good	very good	very good	satisfactory	satisfactory
Oil resistance	unsuitable	very good	unsuitable	good	satisfactory	very good	unsuitable	unsuitable
Acid / Base resistance	very good/ good	satisfactory/ unsuitable	satisfactory	satisfactory/good	ungenügend	very good	very good	satisfactory
Charecteristic property	very well suited for use in chemical plants as well as outdoors, FDA-compliant or electrically conductive possible	very good for applications in contact with oil and petrol. FDA-compliant or electrically conductive possible	very good mechanical properties, FDA-compliant or electrically conductive possible	good material that combines many properties, FDA-compliant or electrically conductive possible	ideal for use at high and low temperatures. Frequently used in the food and medical technology sectors, FDA-compliant or electrically conductive possible	Particularly suitable for high dynamic loads, Exhibits good abrasion resistance. Also versatile in the increased temperature range. FDA-compliant or electrically conductive possible	Has low gas permeability and good electrical insulating properties	High wear resistance, good material to produce blended materials (NR/SBR). FDA-compliant or electrically conductive possible