MATERIAL DATASHEET

Creator: PFR

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Standard NBR - Nitrile rubber

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Description

The copolymerization of acrylonitrile and butadiene produces a nitrile rubber NBR with very good resistance to mineral oil and fuel as well as a low compression set DVR. It is therefore an ideal sealing material in mechanical and plant engineering. The double bond in the main chain of the material structure results in poor oxygen, ozone and temperature resistance compared to other elastomers and polymers. Compatibility with media must be checked in the resistance table.

Properties

- ☐ NBR is a semiconductor, not suitable for electrical insulation
- ☐ Low ozone resistance, not suitable for direct exposure to sunlight

Typical applications

- ☐ Pneumatic and hydraulic applications
- ☐ General mechanical engineering

Further information

Technical data			
Color			black
Hardness	DIN 53519	Shore A	70 ± 5
Specific density	DIN 53479	g/cm³	1.25
Tensile strength	DIN 53504	MPa	7 – 25
Elongation at break	DIN 53504	%	100 – 700
Compression set during 22 h at +100 °C	DIN 53517 25 % deformation	%	15 – 40
Temperature		°C	-25 to +100

Conformities

- ☐ REACH (1907/2006)
- ☐ RoHS (2011/65/EU)
- ☐ ADI-free

Reference to the author/disclaimer

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