

MATERIAL DATASHEET

03-75-0090

Standard FPM - Fluororubber

Creator: PFR

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Description

Fluororubbers are mixed polymers of highly fluorinated hydrocarbons. Depending on the desired properties, up to four different types of monomers can be polymerized together to form a co-polymer. Due to this and the different cross-linking systems, a huge variation in composition is possible. Molded parts vulcanized from this material exhibit high thermal stability and very good resistance to many chemicals. Its gas permeability is also very low. In terms of fire behavior, this material exhibits good flame resistance. Please check the suitability of the material using the chemical resistance list.

Properties

- Excellent resistance to ozone, ageing and weathering
- Unfavorable resistance to low temperatures
- Excellent resistance to heat up to +200 °C
- Good resistance to aliphatic, aromatic and chlorinated hydrocarbons, fuels, mineral oils and greases

Typical applications

- Chemical, pharmaceutical and high vacuum applications

Further information

Conformities

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

Technical data			
Color	black or green		
Hardness	DIN 53519	Shore A	75 ± 5
Specific density	DIN 53479	g/cm ³	1.85
Tensile strength	DIN 53504	MPa	7 – 17
Elongation at break	DIN 53504	%	100 – 300
Compression set during 22 h at +100 °C	DIN 53517 25 % deformation	%	15 – 50
Temperature			°C -20 to +200

Reference to the author/disclaimer

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