

MATERIAL DATASHEET

20-70-0017

FFPM - Perfluoro rubber

Creator:

MTS

Date of creation:

22.03.2024

Date of change:

Description

The polymer chain of perfluoro rubber FFPM consists almost exclusively of carbon and fluorine atoms. The moulded parts from which this material is vulcanized exhibit high thermal stability and excellent resistance to almost all chemical categories such as polar solvents (ketones, esters, ethers), aliphatic, aromatic and chlorinated hydrocarbons, organic and inorganic acids and bases, steam, chlorine, sour gas (mixture of H₂S, H₂O, CO₂, and CH₄), Skydrol 500, etc. The material has excellent resistance to oxygen, ozone, weathering and ageing. In terms of fire behavior, this material has very high flame resistance.

Properties

- ☐ Good mechanical and physical properties
- ☐ Excellent chemical resistance
- ☐ Very good high temperature resistance

Typical applications

- ☐ Chemical and pharmaceutical process industry

Further information

- ☐ Excellent resistance to hot water and steam

Conformities

- ☐ FDA konform 21 CFR § 177.2400
- ☐ 3-A Sanitary Class II
- ☐ EU No. 1935/2004 & 2023/2006
- ☐ USP Class VI
- ☐ REACH (1907/2006)
- ☐ RoHS (2011/65/EU)
- ☐ ADI-free

Reference to the author/disclaimer

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Technical data			
Colour	white		
Hardness	ASTM D 2240	Shore A	70 ± 5
Specific density	g/cm ³		2.35
Tensile strength	ASTM D1414	MPa	14.6
Elongation at break	ASTM D1414	%	192
100 % modulus	ASTM D1414	MPa	7.3
Compression set During 72 h at +150 °C	DIN ISO 815 25 % Verformung	%	20
Temperature	ASTM D2000	°C	-20 to +260

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