



TECHNICAL DATA SHEET

Compound :

FKM

Co-Ter-Tetrapolymer
hexafluoridepropylene / vinylidenfluoride

ORIGINAL PROPERTIES : Analysis on supplier laboratory compound

Physical-mechanical properties	Unit of measurement	Requested
Hardness	Shore A	55 ÷ 95 (43) * **
Density	g/cm ³	1,80 ÷ 2,10
Minimum temperature	° C	- 10 ÷ - 18 * (- 28) * **
Maximum temperature	° C	200 ÷ 230 * (+275) **

Physical-mechanical characteristics	<p>Mechanical properties (tensile strenght and elongation at break) from good to excellent</p> <p>Excellent resistance to permanent deformation</p> <p>Poor rebound elasticity</p> <p>Abrasion resistance from quite good to good * **</p> <p>Tear strenght from quite good to good *</p>
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Other properties	<p>High flame resistance, self-extinguishability</p> <p>Excellent air and gas impermeability</p> <p>Good dielectric properties</p> <p>Excellent UV radiation resistance</p>
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Chemical compatibility	<p>Excellent in contact with:</p> <ul style="list-style-type: none"> - Oils and mineral, vegetable, animal greases - Motor fuels without methanol - Aliphatic, aromatics and chloridated hydrocarbons - Water * **, saline solutions - Hydrochloric and sulphuric acids - Dielectric sintetic oils - Ozone and atmospheric agents - Hydraulic fluids on the basis of silicic esters
	<p>Satisfactory in contact with:</p> <ul style="list-style-type: none"> - Steam up to 140°C - Different kinds of Freon - Sintetic lubricants on the basis of silicic diesters
	<p>Satisfactory enough in contact with:</p> <ul style="list-style-type: none"> - Nitric acid at room temperature
	<p>Insufficient in contact with:</p> <ul style="list-style-type: none"> - Methanol, ketones and esters (except the tricresylphosphate) - Acetic acid - Alkalis at medium and high concentration - Some brake fluids on the basis of not fuel-oils

*depending from the types

** with a specific optimal formulation