



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><i>Mechanical properties (tensile strenght and elongation at break) from good to excellent</i></p> <p><i>Excellent resistance to permanent deformation</i></p> <p><i>Poor rebound elasticity</i></p> <p><i>Abrasion resistance from quite good to good * **</i></p> <p><i>Tear strenght from quite good to good *</i></p>
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Other properties	<p><i>High flame resistance, self-extinguishability</i></p> <p><i>Excellent air and gas impermeability</i></p> <p><i>Good dielectric properties</i></p> <p><i>Excellent UV radiation resistance</i></p>
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Chemical compatibility	<p><i>Excellent in contact with:</i></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><i>Satisfactory in contact with:</i></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><i>Satisfactory enough in contact with:</i></p> <ul style="list-style-type: none"> - Nitric acid at room temperature
	<p><i>Insufficient in contact with:</i></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