

Short designation	FKM
Brand name	Viton®
Chemical description	Fluoro rubber
Mechanical properties	
Hardness range [Shore A/D]	60 - 90
Wear resistance	moderate
Tensile strength [MPa]	10 - 17
Physical properties	
Density [g/cm³]	2
Application temperatures	
Temperature range, short-term [°C]	-30 - 260
Temperature range, continuous [°C]	-20 - 230
Other properties	
Flammability according to UL94	V-2
Chemical resistance	
Mineral grease and oils	++
Petrol	++
Weak/strong acids	++ / ++
Weak/strong alkalis	+ / -
Perchloroethylene	+
Trichloroethylene	+
Acetone	--
Alcohols	-
Brake fluid	--
Hydrolysis resistance (hot water)	+
Weather/UV radiation	++

Main uses	<p>FKM is a copolymer made of fluorinated hydrocarbons. It is best known under the DuPont brand name Viton®.</p> <p>FKM is very expensive compared to other elastomers. As a result of its temperature resistance and resistance to mineral oils, fuels and acidic cleaning agents, however, it is used wherever NBR cannot be used due to excessive heat and chemical attacks.</p>
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++ very good / + good / o satisfactory / - moderate (significant change to properties) / -- unsuitable