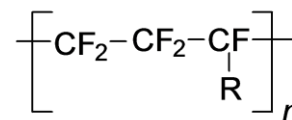


High Temperature Perfluoroelastomer (FFKM 75)

SPECIFICATIONS

Property	Spec	Value
Hardness Shore A	ASTM D 2240	75 ± 5
Specific Gravity	ASTM D 1817	1.98 ± 0.03 g/cm ³
Tensile Strength	ASTM D 412	17.8 MPa
Ultimate Elongation	ASTM D 412	152%
Low Temp Resistance	ASTM D 1329	-4°C
Compression Set 70h/300°C	ASTM D 395 B/1	46%
Compression Set 70h/280°C	ASTM D 395 B/1	35%
Compression Set 70h/200°C	ASTM D 395 B/1	19.5%
Temperature		-15°C min +330°C max
Color		Black



DESCRIPTION

MF216 is a FFKM material with hardness 75 Shore A, specially made compound for high temperature applications. FFKM is referred to as perfluoroelastomers, in which ALL hydrogen atoms are replaced by fluorine atoms in the polymer. FFKM has better fluid resistance and base resistance at much higher temperatures than FKM. Raw materials for producing FFKM are very expensive. For this reason, FFKM is considered to be a high cost specialty elastomer. In order to take advantage of high temperature resistance from FFKM, all other ingredients, especially fillers and cure systems in the formulations have to withstand the temperature at least as much FFKM. The mechanical property loss and thermal expansion of FFKM needs to be carefully considered if seals are used over a wide temperature cycle. FFKM is usually used in stringent applications that other elastomers are unable to match. Typical application environments are hydrocarbon liquids and gases, water and steam, solvents, amines, brake fluids, many acids and alkalis, air or ozone. FFKM is not suited for molten and gaseous metals such as sodium or potassium, nor fluorinated solvents or refrigerants, nor chlorine compounds. FFKM is not suited for steam over 150°C.