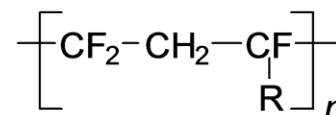


Extended Temperature Fluorinated Elastomer (FKM 70)

SPECIFICATIONS

Property	Spec	Value
Hardness	ASTM D 2240	70A ± 5
Specific Gravity	ASTM D 1817	2.09g/cm ³ ± 0.03
Tensile Strength	ASTM D 412 DIE C	≥10 Mpa
Elongation at Break	ASTM D 412 DIE C	≥175% ₀
Color		Brown
Heat Resistance 250C, 70hrs: A1-10	ASTM D 573	
Hardness		+10 pts max
Tensile Strength		-25% max
Elongation		-25% max
Compression Set 200C; 22hrs: B38 tested value was 8%	ASTM D 395 B	50% max
ASTM Oil; 200C; 70hrs: E078	ASTM D 471	
Hardness		-15 to +5pts
Tensile Strength		-40% max
Elongation		-20% max
Volume		0 to +15%
ASTM Fule C; 23C; 70hrs; EF31	ASTM D 471	
Hardness		±5 pts
Tensile Strength		-25% max
Elongation		-20% max
Volume		0 to +10%



DESCRIPTION

MF90 is a FKM material with hardness 70A, specially compounded for extended temperature applications. FKM typically has 65 to 70% fluorine content. There are five types of FKM, and they are differentiated either by trade names or specific end-use characteristics. The higher the fluorine content, the better fluid resistance they have. On the downside, higher fluorine content can reduce physical properties of an elastomer in regards to being prone to compression set or extrusion problems. In general FKM has good resistance to mineral oils, greases and some phosphate esters (HFD), silicon oils or grease, chlorinated solvents, air, ozone and fuels. The general grade FKM is not recommended for steam and hot water that is above 100°C, phosphate esters like Skydrol, polar solvents, fuels containing methanol, gear lubricants with EP additives, engine oils with amine additives, amines, alkalis, organic acids, and brake fluids. For special applications including the above incompatible environments, specialty types of FKM are available and need to be prudently selected. FKM can be molded by compression, transfer and injection molding processes. FKM can be a cost-effective material when its expected life time exceeds that which many other elastomers can provide.