

M SEALS FPM-G75

Soft FPM/FKM Fluorocarbon Rubber (Viton™)



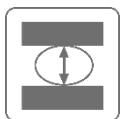
MATERIAL DATA SHEET (Version 6.0 – 05.2022)



High Temperature



Chemical Resistance



Compression Set Resistance



Elastic Behaviour

Description

M Seals material FPM-G75 is a soft 75a Shore hardness Fluorocarbon rubber (FPM/FKM) which is commonly referred to as Viton™. This material provides excellent elasticity and high temperature compression-set characteristics, making it an excellent choice for low-pressure hydraulic and pneumatic seals or energising elements for composite type seals.

FPM-G75 is suitable for use with most mineral oils, greases, fuels, industrial phosphate ester (HFDR) and environmentally friendly (HETG) fluids. It can also be used for sealing gas, air, cold water and some acids.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Grey/Black
Density	ISO 1183	g/cm³	2.13
Hardness	DIN 53505	Shore A	75 (+/-5)
Tensile Strength	DIN 53504	MPa	10.3
Elongation at break	DIN 53504	%	252
Tear strength	DIN 53515	N/mm	5.1
Rebound resilience	DIN 53512	%	8
Compression set (24 Hours @ 175°C)	ISO 815-1	%	15.2
Minimum service temperature		°C	-25
Maximum service temperature		°C	+230

Viton™ is a registered trademark of the Chemours company

Main Characteristics

- Excellent elastic behaviour
- Excellent compression set characteristics
- Excellent chemical resistance
- Good rebound behaviour
- Wide temperature range

Typical Products

- Low pressure hydraulic seals
- Energising rings for composite seals
- Pneumatic seals
- Static Seals & O-Rings
- Depositor seals

Typical Applications

Due to its excellent elasticity and rebound behaviour, FPM-G75 FPM/FKM Fluorocarbon elastomer can be used in a wide range of applications such as low pressure hydraulic and pneumatic systems or in high temperature applications where compression set of the sealing material may be a problem.

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