

ENGINEERING DATA SHEET

DSM 3.9.2

ASMPT

Synthetic Rubber Viton (FKM)

General:

Fluorine Kautschuk Material (**FKM**) is a family of fluorocarbon elastomer originally developed by DuPont. The material is a very dense thermoset and much more expensive than most other rubbers.

Comparable to nitrile Butadiene rubbers (**NBR**), FKM is widely used for seals and O-rings. Both FKM and NBR have the advantage over natural rubbers of being resistant to oils and chemicals. However, FKM has a greater resistance to extreme temperatures and most corrosive compounds.

Benefits:

- Suitable for very hot & corrosive environments.
- Excellent resistance to mineral oil, fuels, organic solvents & chemicals.
- Good electrical insulation.
- Good compression recovery.
- Self- extinguishing.
- Temperature range: -30°C to 200°C.

Limitations:

- Expensive.
- Some grades can be vulnerable to ketone and ester solvents.

ASMPT Applications:

- O-rings and seals

These values are representative. For critical applications, refer to datasheet.

Mechanical Properties					
	HARDNESS SHORE A	TENSILE STRENGTH	YOUNGS MODULUS	POISSONS RATIO:	DENSITY
FKM	60-90	10 MPa	0.01 GPa	0.5	2000 kg/m ³

Alternatives:

Alternative polymers are allowed only with the express written permission of ASMPT. Please email details of your request to engineering_enquiries@asmpt.com

Issue	01	02	03	04	05	06	07	08
Date		7135	44832	10/01/23				