



Material Data Sheet

FPM (VITON™) Brown

FPM**GENERAL DETAILS**

DMR FPM is a brown fluorocarbon elastomer commonly referred to as VITON (™Du Pont) and FPM. This material has excellent physical and chemical properties and has a very high resistance to hydraulic fluids, chemicals and a number of organic compounds and will also operate in temperatures between -20° to +210°C. FPM is highly recommended for applications where it's outstanding resistance to heat, chemicals, weathering and ozone may be needed.

PHYSICAL PROPERTIES	STANDARD	UNIT	VALUE
Specific Gravity	DIN 53479	g/cm ³	2.51
Hardness at 20°C	DIN 53505	Shore A	83
Tensile Strength	DIN 53504	N/mm ²	>13
Elongation at break	DIN 53504	%	>200
Compression set 22h / 175°C	DIN 53456	%	7.7
Min Service Temperature		°C	-20
Max Service Temperature		°C	210

MAIN APPLICATIONS

Seals (Standard & special)
 Wipers
 O-Rings
 Rotary seals
 Flange seals
 Gaskets
 High temperature applications.

CHEMICAL RESISTANCE	
Water up to 70°C	S
Water up to 90°C	S
HFA Fluids	R
HFB Fluids	R
HFC Fluids	S
HFD Fluids	U
Mineral Oils	R
Vegetable Oils	R
Fuels	R
Ozone	R
Air up to 100°C	R
Air up to 150°C	R
Air up to 200°C	R

KEY TO CHEMICAL RESISTANCE

R = Resistance

S = Suitable

U = Unsuitable

ANALYSIS AND EVALUATION

The properties mentioned are only valid for test pieces of the corresponding ISO, DIN and ASTM standards. They Cannot be directly related to finished seals, gaskets or other sealing products and should only be used as a general guide.