



## 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 <sup>3</sup>	2.51
Hardness at 20°C	DIN 53505	Shore A	83
Tensile Strength	DIN 53504	N/mm <sup>2</sup>	>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

### 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

### MAIN APPLICATIONS

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

### 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.

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