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Material Data Sheet F109-BR85 (genuine VITON®) FPM F109 – brown (bisphenole cross linked)

General

F109-BR85 is a brown Fluorocarbon elastomere, commonly referred to as VITON® and FPM. FPM materials have a very high resistance to hydraulic fluids, chemicals and a number of organic compounds and operating temperature ranges between -20 to +210°C. F109-BR85 is recommended for applications where its outstanding resistance to heat, chemicals, weathering and ozone is required.

Physical properties

Density:	DIN 53479	g/cm ³	2,41	±0,03
Hardness at 23°C:	DIN 53505	Shore A	84	±5
100% Modulus:	DIN 53504	N/mm ²	6,7	*
Tensile strength:	DIN 53504	N/mm ²	8,9	*
Elongation at break:	DIN 53504	%	161,4	*
Tear resistance:	DIN 53515	kN/m	38,8	*
Compression set, 22h, 70°C, 25%:	DIN 53517	%	6,0	*
Compression set, 22h, 100°C, 25%:	DIN 53517	%	5,6	*
Compression set, 22h, 175°C, 25%:	DIN 53517	%	12,6	*

* mentioned values are subject to a tolerance of +/- 25%

Temperature range: -20°C to 210°C

Chemical resistance

Resistant to: HFD-S, R Fluids, Mineral Oils, Vegetable Oils, Silicone Oils, Biodegradable Oils, Hydrocarbons, Alcohols, Diesel, Gasoline, Fuels, Ozone, Oxygen, Air up to 200°C

Not Resistant to: Steam