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Material Data Sheet F111-B85

FPM-black F111 (bisphenole cross linked)

General

F111-B85 is a black 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 operate in temperatures between -25 to +210°C. F111-B85 is recommended for applications where its outstanding resistance to heat, chemicals, weathering and ozone is required.

Physical properties

Density:	DIN 53479	g/cm ³	1,86	±0,03
Hardness at 23°C:	DIN 53505	Shore A	85	±5
100% Modulus:	DIN 53504	N/mm ²	7,5	*
Tensile strength:	DIN 53504	N/mm ²	11,6	*
Elongation at break:	DIN 53504	%	211,6	*
Tear resistance:	DIN 53515	kN/m	49,8	*
Rebound resiliance:	DIN 53512	%	10	*
Compression set, 22h, 70°C, 25%:	DIN 53517	%	9,5	*
Compression set, 22h, 100°C, 25%:	DIN 53517	%	7,4	*
Compression set, 22h, 175°C, 25%:	DIN 53517	%	13,9	*

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

Temperature range: -25°C to 210°C

Chemical resistance

Resistant to: HFD-S, HFD-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

Main application

Static and dynamic seals (standard and special), wipers, O-rings, flange seals, rotary seals, rubber energizers (preload elements). Applications where high temperature and/or chemical resistance is required.