



MATERIAL DATA SHEET

FKM Black

GENERAL INFORMATION

FKM Black is an elastomer based on fluoro-rubber and commonly known as FPM, VITON®.

It has outstanding properties in resistance to high temperature, weathering, ozone and many chemicals. FKM Black has good chemical resistance to mineral oils and greases containing sulphur, HFD fluids, crude oil and sour gas but is not resistant to anhydrous ammonia, amines, ketones, esters, hot water and low-molecular organic acids.

MECHANICAL | ELECTRICAL | THERMAL PROPERTIES

Colour:			black
Hardness at 20°:	DIN 53505	Shore A	85 +/-2
Density:	DIN ISO 1183-1	g/cm ³	1.88
100% Modulus:	DIN 53504	N/mm ²	> 7
300% Modulus:	DIN 53504	N/mm ²	> /
Tensile strength:	DIN 53504	N/mm ²	> 12
Elongation at break:	DIN 53504	%	> 180
Rebound resilience:	DIN 53512	%	> 7
Tear strength:	DIN ISO 34-1	N/mm ²	> 21
Abrasion:	DIN 53516	mm ³	< 150
Compression set:*	DIN ISO 815-1	%	< /
Compression set:**	DIN ISO 815-1	%	< 20
Compression set:***	DIN ISO 815-1	%	< /
Compression set:****	DIN ISO 815-1	%	< /
Min. service temperature:		°C	- 25
Max. service temperature (short term):		°C	+ 210 (+230)

* Compression set @ 23°C, 72 hours, 10% deflexion

** Compression set @ 70°C, 24 hours, 20% deflexion

*** Compression set @ 100°C, 24 hours, 20% deflexion

**** Compression set @ 225°C, 22 hours, 10% deflexion

REMARK

All test methods and values stated above are corresponding to ASTM | DIN | ISO standards and have been tested on standardized plates in the laboratory. All tests are made under laboratory conditions.

This information does not except our customers to test our products for its suitability for the intended application.

Utilization, processing and application of our products are out of our control and therefore our customers responsibility, also in terms of any protective rights of any third party.