

## MATERIAL DATA SHEET

### FKM

#### GENERAL INFORMATION

FKM is an elastomer based on fluororubber and commonly known as FPM, VITON. It has outstanding properties in resistance to high temperature, weathering, ozone and many chemicals. FKM 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. FKM corresponds to FDA standards.

#### MECHANICAL | ELECTRICAL | THERMAL PROPERTIES

Colour:			brown
Hardness at 20°:	DIN 53505	Shore A	85 +/-2
Density:	DIN ISO 1183-1	g/cm <sup>3</sup>	2.51
100% Modulus:	DIN 53504	N/mm <sup>2</sup>	> /
300% Modulus:	DIN 53504	N/mm <sup>2</sup>	> /
Tensile strength:	DIN 53504	N/mm <sup>2</sup>	> 11
Elongation at break:	DIN 53504	%	> 200
Rebound resilience:	DIN 53512	%	> 6
Tear strength:	DIN ISO 34-1	N/mm <sup>2</sup>	> 5
Abrasion:	DIN 53516	mm <sup>3</sup>	< 230
Compression set:*	DIN ISO 815-1	%	< /
Compression set:**	DIN ISO 815-1	%	< /
Compression set:***	DIN ISO 815-1	%	< /
Compression set:****	DIN ISO 815-1	%	< 8
Min. service temperature:		°C	- 20
Max. service temperature (short term):		°C	+ 200 (+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 mentioned 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.