



TECHNICAL DATASHEET

19.04.2021

COG material	Vi 250
Basic elastomer	Fluorinated rubber (FKM)
Colour	black
Operating temperature (air)	from -25 °C to +250 °C
Approvals/Certifications	n/a
Curing system	Bisphenol cured
Note	n/a

Properties	Unit	TEST SPECIMEN		O-RING	
		Value	Test method	Value	Test method
Hardness	Shore A	75 ± 5	DIN ISO 48	75 ± 5	DIN ISO 48
Hardness	°IRHD	75 ± 5	DIN ISO 48	75 ± 5	DIN ISO 48
Tensile strength	MPa	> 10	DIN 53 504	> 8	DIN 53 504
Elongation	%	> 175	DIN 53 504	> 120	DIN 53 504
Module / Stress value at 100 %	MPa	> 5	DIN 53 504	> 5	DIN 53 504
TR-10	°C	-17	ASTM D 1329	-17	ASTM D 1329
Compression set (24 h / 200 °C)	%	< 16	DIN ISO 815	< 25	DIN ISO 815
Compression set (70 h / 200 °C)	%	< 25	DIN ISO 815	< 30	DIN ISO 815
Hardness after storage at hot temperatures (72 h / 200 °C)	°IRHD	+3	DIN ISO 48	+3	DIN ISO 48
Hardness after storage at hot temperatures (168 h / 200 °C)	°IRHD	+5	DIN ISO 48	+5	DIN ISO 48
Hardness after depositing in IRM 901 (72 h / 150 °C)	n/a	n/a	n/a	n/a	n/a
Volume after depositing in IRM 901 (72 h / 150 °C)	n/a	n/a	n/a	n/a	n/a
Hardness after depositing in IRM 903 (72 h / 150 °C)	°IRHD	-4	DIN ISO 48	-4	DIN ISO 48
Volume after depositing in IRM 903 (72 h / 150 °C)	%	±2	ISO 1817	±2	ISO 1817
Hardness after depositing in isooctane:toluene (1:1); (72 h / 23 °C)	°IRHD	-10	DIN ISO 48	-10	DIN ISO 48
Volume after depositing in isooctane:toluene (1:1); (72 h / 23 °C)	%	+5	ISO 1817	+5	ISO 1817
Härte nach Einlagerung in	n/a	n/a	n/a	n/a	n/a
Volumen nach Einlagerung in	n/a	n/a	n/a	n/a	n/a

The values shown are average values, resulting from a limited amount of laboratory tests. The tests were carried out on standard test specimens, and so the results could differ markedly from tests carried out on finished parts. It is the customer's responsibility to ensure that he or she performs their own tests, so as to be certain that the product is suitable for its intended use.

Our recommendations are based on the full extent of our available knowledge. However, they are non-binding, and we cannot be held liable for any kind of damages that may arise whatsoever.

COG material: Vi 250

Description of material

FKM possesses extraordinarily good resistance to numerous specific media and chemicals, for example: mineral oils; aliphatic, aromatic and chlorinated hydrocarbons, plus concentrated or diluted acids and weak alkalis. Resistance to water vapour is however limited. Thanks to its extraordinary polymer structure, Vi 250 demonstrates continuous high temperature resistance up to +250 °C. Excellent mechanical resistance and outstanding resistance to ageing round off this compound's profile.

Area of application

Vi 250 has been specially developed for use in applications with continuous high temperatures, demonstrating sustained resistance to the medium air at up to 250 °C. This chemically resistant all-rounder is used in the widest-ranging areas of industry, for example in the compressor and compactor industry.

Approvals/Certifications

Special attributes

- Extraordinary high temperature resistance up to 250 °C
- Excellent resistance to media
- All types of hydrocarbons (oils, fats, fuels, solvents)
- Low gas permeability
- High chemical resistance



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