

# FPM ED

Fluorinated rubber, Terpolymer, black

- Suitable against explosive decompression
- Resistant to mineral oil, HFD-U and HETG, to acidic oils and gases, to cold water
- Applicable for static seals, rod and piston seals, wiper seals and rotary seals

Properties	Value	Unit	DIN Standard
Hardness	88 ±5	Shore A	DIN ISO 7619-1
Density	1,835	g/cm <sup>3</sup>	DIN EN ISO 1183-1
100% Modulus	6,6	MPa	DIN 53504
Elongation at break	279	%	DIN 53504
Tensile strength	13,0	MPa	DIN 53504
Compression set 23°C/70h	22,3	%	DIN ISO 815-1
Compression set 150°C/22h	40,3	%	DIN ISO 815-1
Compression set 175°C/22h	42,2	%	DIN ISO 815-1
Rebound resilience	11	%	DIN ISO 4662:2017
Tear resistance	6,6	N/mm	DIN ISO 34-1 A
Abrasion resistance	133	mm <sup>3</sup>	DIN ISO 4649 B
min. Service temperature	-25	°C	
max. Service temperature	+215	°C	

This compound is tuned to fit the requirements according to NORSOK M-710. NORSOK M-710 calls out the requirements for critical non-metallic, polymeric sealing materials in applications such as subsea use, control systems and valves. It provides standards for rapid gas decompression (RGD) also known as explosive decompression (ED) testing and sour gas (H<sub>2</sub>S) aging on elastomers and thermoplastics. These tests give insight into the performance and life expectancy of a seal in various EOG applications.

All above stated data result from random tests which were taken from the ongoing production. All data were established based on standard test-specimen according to ISO, DIN and ASTM standards and can basically not be carried over to the construction element.

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