

Material

70 EPDM 291

black

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Physical properties

	nominal range	typical values	
Density DIN EN ISO 1183-1, 23 °C	1.09 ±0.02	1.09	g/cm ³
Hardness DIN ISO 48-4, Shore A, 23 °C	75 ±5	79	Shore
Modulus 100 %, DIN 53504, S2, 23 °C	> 8	10.8	MPa
Tensile strength DIN 53504, S2, 23 °C	> 14	16	MPa
Elongation at break DIN 53504, S2, 23 °C	> 150	160	%
Compression set DIN ISO 815, Slab B, 24 h, 150 °C, 25 %	< 20	11	%
Low Temperature ISO 11357-2, DSC	< -48	-53	°C
Low temperature test ISO 2921, TR10	< -44	-47	°C
Temperature range	static: -50°C to 150°C dynamic: -40°C to 150°C		

Declarations of conformity

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the actual declaration of conformity (DoC) including the conditions and its validity period.

	Country	Part	Remark	Expires
(EG) 1935/2004	EU		food	see DoC
(EG) 2023/2006 (GMP)	EU		(EG) 2023/2006 (GMP)	see DoC
3-A Sanitary	USA	Seals	Class II	12 / 2027
ADI Free			see certificate	see DoC
BFR XXI, Kat 4	DE		food	see DoC
BPA/Phthalate free			BPA/Phthalate free	see DoC
CMR Category 1A/1B free			see certificate	see DoC
Cytotoxicity USP chapter	-	Seals		11 / 2032

Freudenberg

Freudenberg FST GmbH
Technology&Innovation
Material Compliance

Telefon: -
Fax: -
Email: MaterialCompliance@fst.com



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	Country	Part	Remark	Expires
87 & 88 (class VI)				
Decree of 21. March 1973	IT	O-Ring		09 / 2028
FDA	USA	Seals	§ 177.2600	05 / 2027
French Arrêté 2020	F	Seals		08 / 2028
NSF 51	USA	Seals		see DoC
RoHS conform			including EU 2011/65 and EU2015/863 (ROHS III)	see DoC
WRAS BS 6920	GB	O-Ring	85 °C	11 / 2027

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No ASTM D2000 properties available

Application in water and water vapor to max. 180 °C, for short time max. 210 °C

Ozone resistance: to 1000 pphm (40 °C)

The given values are based on a limited number of tests on standard test pieces (2mm sheets). The data from finished parts can deviate from above values depending on the manufacturing process and the component geometry.

The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisions do not plan for something else.

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Telefon: -
Fax: -
Email: MaterialCompliance@fst.com

