

Technical data sheet in accordance with ASTM

Material

EPDM EP702705

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ISO 2781	1.12 ±0.02	1.12	g/cm ³
Hardness ASTM D2240, Shore A, 23 °C	70 ±5	70	Shore
Tensile strength ISO 37-1	---	14.8	MPa
Elongation at break ISO 37-1	---	337	%
Tear strength ISO 34-1, C, 23 °C	---	55	KN/m
Low temperature test ISO 2921, TR10	---	-30	°C
Low-temperature resistance ISO 812	---	-53	
Compression set DIN ISO 815, Slab B, 22 h, 100 °C, 25 %	---	15	%
Compression set DIN ISO 815, Slab B, 70 h, 100 °C, 25 %	---	22	%
Compression set DIN ISO 815, Slab B, 22 h, 125 °C, 25 %	---	21	%
Compression set DIN ISO 815, Slab B, 70 h, 125 °C, 25 %	---	35	%
Ozone Resistance 40 °C, 70 h, 200 pphm, 100% Elongation	---	0	Rating
Temperature range	-45°C to 130°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.

Freudenberg

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Country Part

ADI Free
Info ROHS and ELV

Remark

see certificate
EU 2000/53 (ELV) including EU 2011/65 and
EU2015/863 (ROHS III)

Expires

see DoC
see DoC

Change after aging in Air: 70h/100°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ISO 37-1, 23 °C)
Elongation at break (ISO 37-1, 23 °C)
volume change (ISO 188 B)

	Base value	After aging	difference
Shore	70	73	3
MPa	14.8	15.2	3 %
%	337	262.9	-22 %
%		-1	

Change after aging in Air: 70h/125°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ISO 37-1, 23 °C)
Elongation at break (ISO 37-1, 23 °C)
volume change (ISO 188 B)

	Base value	After aging	difference
Shore	70	75	5
MPa	14.8	15.4	4 %
%	337	235.9	-30 %
%		-6	

Change after aging in Air: 70h/140°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ISO 37-1, 23 °C)
Elongation at break (ISO 37-1, 23 °C)
volume change (ISO 188 B)

	Base value	After aging	difference
Shore	70	76	6
MPa	14.8	16.3	10 %
%	337	208.9	-38 %
%		-8	

Change after aging in Air: 70h/150°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ISO 37-1, 23 °C)
Elongation at break (ISO 37-1, 23 °C)
volume change (ISO 188 B)

	Base value	After aging	difference
Shore	70	78	8
MPa	14.8	16	8 %
%	337	175.2	-48 %
%		-8.2	

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Change after aging in Water: 70h/100°C

Typ. values

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ISO 37-1, 23 °C)
Elongation at break (ISO 37-1, 23 °C)
volume change (ISO 188 B)

Shore
MPa
%
%

Base value	After aging	difference
70	69	-1
14.8	14.1	-5 %
337	293.2	-13 %
	2	

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No ASTM D2000 properties available

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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