

Technical data sheet in accordance with ASTM

Material

EPDM EP70A503

black

cross linking: peroxidic

revision index	revision date			page
1	11/8/2018			1 / 3
Physical properties		nominal range	typical values	
Density ISO 2781 A		1.18 ±0.03	1.18	g/cm ³
Hardness ASTM D 2240, Shore A		70 ±5	70	Shore
Tensile strength ISO 37		---	12	MPa
Elongation at break ISO 37		---	204	%
Modulus 100 %, ISO 37		---	5.2	MPa
Modulus 200 %, ISO 37		---	11.5	MPa
Tear strength DIN 53515		---	27	KN/m
Low temperature test ASTM D1329, TR10		---	-41	°C
Low temperature test ASTM D1329, TR30		---	-30	°C
Low temperature test ASTM D1329, TR50		---	-21	°C
Compression set DIN ISO 815, Slab A, 22 h, 100 °C		---	5	%
Compression set DIN ISO 815, Slab A, 22 h, 150 °C		---	11	%
Compression set DIN ISO 815, Slab A, 70 h, 150 °C		---	19	%
Temperature range	-50°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.

Freudenberg

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revision index

1

revision date

11/8/2018

page 2 / 3

Country Part

Info ROHS and ELV

Remark

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

Expires

see DoC

Change after aging in Air: 70h/150°C

Hardness (ASTM D2240, Shore A)
Tensile strength (ISO 37)
Elongation at break (ISO 37)
volume change (ISO 188)

Shore
MPa
%
%

Typ. values		
Base value	After aging	difference
70	73	3
12	12.4	3 %
204	192	-6 %
	-3	

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

Hardness (ASTM D2240, Shore A)
Tensile strength (ISO 37)
Elongation at break (ISO 37)
volume change (ISO 1817)

Shore
MPa
%
%

Typ. values		
Base value	After aging	difference
70	67	-3
12	11.9	-1 %
204	214	5 %
	2.5	

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1

revision date

11/8/2018

page

3 / 3

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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