

Technical data sheet in accordance with ASTM

Material

NBR NB707101

black

cross linking: sulfur

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5	11/4/2022		

Physical properties	nominal range	typical values	
Density ASTM D 1817	1.23 ±0.03	1.23	g/cm ³
Hardness ASTM D2240, Shore A	70 ±5	72	Shore
Tensile strength ASTM D412	> 14	17.3	MPa
Elongation at break ASTM D412	> 250	332	%
Modulus 100 %, ASTM D412	---	5.5	MPa
Low temperature test ASTM D1329, TR10	---	-27.3	°C
Low-temperature resistance ASTM D 2137, 3 min, Method A, Nonbrittle; pass	---	-30	
Compression set ASTM D395, Slab B, 22 h, 100 °C, button	---	8	%
Temperature range	-30°C to 100°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
ADI Free			see certificate	see DoC
RoHS conform			including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

Freudenberg

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Change after aging in Air: 70h/100°C

Hardness (ASTM D573, Shore A)	Shore	72	73.2	1
Tensile strength (ASTM D573)	MPa	17.3	18.2	5 %
Elongation at break (ASTM D573)	%	332	342	3 %
volume change (ASTM D573)	%		-0.3	

Typ. values

Base value	After aging	difference

Change after aging in Fuel A: 70h/23°C

Hardness (ASTM D471, Shore A)	Shore	72	70.2	-2
Tensile strength (ASTM D471)	MPa	17.3	17.1	-1 %
Elongation at break (ASTM D471)	%	332	335.3	1 %
volume change (ASTM D471)	%		1.3	

Typ. values

Base value	After aging	difference

Change after aging in Fuel B: 70h/23°C

Hardness (ASTM D471, Shore A)	Shore	72	52.7	-19
Tensile strength (ASTM D471)	MPa	17.3	12.3	-29 %
Elongation at break (ASTM D471)	%	332	232.4	-30 %
volume change (ASTM D471)	%		25.5	

Typ. values

Base value	After aging	difference

Change after aging in IRM 901: 70h/100°C

Hardness (ASTM D471, Shore A)	Shore	72	80	8
Tensile strength (ASTM D471)	MPa	17.3	19.2	11 %
Elongation at break (ASTM D471)	%	332	341.9	3 %
volume change (ASTM D471)	%		-8.6	

Typ. values

Base value	After aging	difference

Change after aging in IRM 903: 70h/100°C

Hardness (ASTM D471, Shore A)	Shore	72	71.3	-1
Tensile strength (ASTM D471)	MPa	17.3	18.5	7 %
Elongation at break (ASTM D471)	%	332	335.3	1 %
volume change (ASTM D471)	%		2	

Typ. values

Base value	After aging	difference

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

Typ. values

Hardness (ASTM D471, Shore A)
Tensile strength (ASTM D471)
Elongation at break (ASTM D471)
volume change (ASTM D471)

	Base value	After aging	difference
Shore	72	65.7	-6
MPa	17.3	18	4 %
%	332	328.7	-1 %
%		6.4	

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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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