

Technical data sheet in accordance with ASTM

Material

NBR NB907101

black

cross linking: sulfur

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5

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2/5/2024

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Physical properties

	nominal range	typical values	
Density ASTM D1817	1.34 ±0.03	1.34	g/cm ³
Hardness ASTM D2240, Shore A	90 ±5	92	Shore
Tensile strength ASTM D412	---	14.4	MPa
Elongation at break ASTM D412	---	125	%
Modulus 100 %, ASTM D412	---	12.9	MPa
Low temperature test ASTM D1329, TR10	---	-34.2	°C
Low-temperature resistance ASTM D2137, 3 min, Method A, nonbrittle; Pass	---	-30	
Compression set ASTM D395, Slab B, 22 h, 100 °C, Button	---	9	%
Temperature range	-45°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
Info ROHS and ELV			EU 2000/53 (ELV) 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
Tensile strength (ASTM D573)	MPa
Elongation at break (ASTM D573)	%
volume change (ASTM D573)	%

Typ. values			
Base value	After aging	difference	
92.4	94	2	
14.4	14	-3 %	
125	116.2	-7 %	
	-0.3		

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

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

Typ. values			
Base value	After aging	difference	
92.4	90.2	-2	
14.4	13.7	-5 %	
125	120	-4 %	
	2.4		

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

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

Typ. values			
Base value	After aging	difference	
92.4	75.1	-17	
14.4	9.4	-35 %	
125	86.2	-31 %	
	24		

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

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

Typ. values			
Base value	After aging	difference	
92.4	95.3	3	
14.4	14	-3 %	
125	115	-8 %	
	-3.8		

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

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

Typ. values			
Base value	After aging	difference	
92.4	87.7	-5	
14.4	13.8	-4 %	
125	108.7	-13 %	
	5.4		

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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)

Shore
MPa
%
%

Base value	After aging	difference
92.4	89.3	-3
14.4	14.1	-2 %
125	120	-4 %
	5.3	

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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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