

Technical data sheet in accordance with ASTM

Material

NBR NB501801

black

cross linking: sulfur

revision index	revision date	page	1 / 3
2	4/11/2018		

Physical properties	nominal range	typical values	
Density ASTM D1817	1.25 ±0.02	1.25	g/cm ³
Hardness ASTM D2240, Shore A	50 ±5	50	Shore
Modulus 100 %, ASTM D412-06a	---	2.3	MPa
Tensile strength ASTM D412	---	12.5	MPa
Elongation at break ASTM D412	---	353	%
Compression set ASTM D395, Slab B, 22 h, 100 °C, 25 %	---	11	%
Low-temperature resistance ASTM D 2137 A, 3 min, pass	---	-40	

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

Change after aging in Air: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	50	54	4
Tensile strength (ASTM D412)	MPa	12.5	12.7	2 %
Elongation at break (ASTM D412)	%	353	300	-15 %
weight change	%		-1.3	

Freudenberg

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revision index

2

revision date

4/11/2018

page 2 / 3

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

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values		
Base value	After aging	difference
50	53	3
12.5	11.6	-7 %
353	357	1 %
	-2.4	

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

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values		
Base value	After aging	difference
50	47	-3
12.5	12.6	1 %
353	310	-12 %
	7.7	

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2

revision date

4/11/2018

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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