

Technical data sheet in accordance with ASTM

Material

NBR NB801806

black

cross linking: sulfur

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Physical properties

	nominal range	typical values	
Density CNS 5341, 23 °C	1.22 ±0.03	1.21	g/cm ³
Hardness ASTM D 2240, Shore A	80 ±5	78	Shore
Tensile strength ASTM D 412	---	24	MPa
Elongation at break ASTM D 412	---	355	%
Modulus 100 %, ASTM D 412	---	4.8	MPa
Low temperature test ASTM D 1329-08, TR10	---	-22.9	°C
Compression set ASTM D 395 B, 22 h, 100 °C	---	11	%
Low-temperature resistance ASTM D 2137, 3 min, pass	---	-25	

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	78	80	2
Tensile strength (ASTM D412)	MPa	24	23.5	-2 %
Elongation at break (ASTM D412)	%	355	294	-17 %

Freudenberg

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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	
78	76	-2	
24	21.8	-9 %	
355	323	-9 %	
	1.2		

Change after aging in Fuel B: 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	
78	52	-26	
24	12.2	-49 %	
355	209	-41 %	
	33.5		

Change after aging in IRM 901: 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	
78	79	1	
24	23.5	-2 %	
355	291	-18 %	
	-0.8		

Change after aging in IRM 903: 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	
78	69	-9	
24	23.3	-3 %	
355	323	-9 %	
	11.1		

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	
78	76	-2	
24	22.8	-5 %	
355	319	-10 %	
	5.2		

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No ASTM D2000 properties available

Low temp. resistance, ASTM D 2137-05 A, 3min/ -25°C: pass

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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