

Technical data sheet in accordance with ASTM

Material

NBR NB703303

black

cross linking: sulfur

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Physical properties

	nominal range	typical values	
Density ASTM D 297, 23 °C	1.50 ±0.03	1.50	g/cm ³
Hardness ASTM D 2240, Shore A, 23 °C	70 ±5	70	Shore
Tensile strength ASTM D 412, 23 °C	---	9	MPa
Elongation at break ASTM D 412, 23 °C	---	450	%
Compression set ASTM D 395 B, 22 h, 100 °C, 25 %	---	16	%
Temperature range	-35°C to 90°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
RoHS conform			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 D573, Shore A)	Shore	71	73	2
Tensile strength (ASTM D573)	MPa	10	11.2	12 %
Elongation at break (ASTM D573)	%	480	414.2	-14 %

Change after aging

in Fuel A: 70h/23°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A)	Shore	71	70	-1
Tensile strength (ASTM D471)	MPa	10	10.8	8 %
Elongation at break (ASTM D471)	%	480	451	-6 %
volume change (ASTM D471)	%		1	

Freudenberg

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

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

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
71	63	-8	
10	8	-20 %	
480	422.4	-12 %	
	15		

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

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

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
71	72	1	
10	11.3	13 %	
480	408	-15 %	
	2		

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

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

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
71	68	-3	
10	10.6	6 %	
480	441.6	-8 %	
	5		

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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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