

Technical data sheet in accordance with ASTM

Material

NBR NB703412

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ASTM D 1817, 23 °C	1.29 ±0.02	1.29	g/cm ³
Hardness ASTM D2240, Shore A, 23 °C	70 ±5	70	Shore
Tensile strength ASTM D412, 23 °C	---	17.4	MPa
Elongation at Break ASTM D412, 23 °C	---	422	%
Surface resistivity DIN IEC 93, 23 °C	---	3.6e+008	Ohm
Low temperature test ASTM D1329, TR10	---	-33	°C
Compression set ASTM D395, 22 h, 100 °C, 25 %	---	9	%
Temperature range	-40°C to 100°C		

Declarations of conformity

Country	Part	Remark	Expires	unlimited
RoHS conform		including EU 2011/65 and EU2015/863 (ROHS III)		☒

Change after aging in Air: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	70	77	7
Tensile strength (ASTM D412)	MPa	17.4	17.9	3 %
Elongation at Break (ASTM D412)	%	422	337.6	-20 %
volume change (ASTM D471)	%		-6	

Freudenberg

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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	
70	59	-11	
17.4	13.7	-21 %	
422	337.6	-20 %	
	18		

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	
70	75	5	
17.4	18.8	8 %	
422	354.5	-16 %	
	-7		

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	
70	69	-1	
17.4	17.7	2 %	
422	346	-18 %	
	2		

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	
70	68	-2	
17.4	16.9	-3 %	
422	379.8	-10 %	
	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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