

Technical data sheet in accordance with ASTM

Material

NBR NB704604

black

cross linking: sulfur

revision index
2

revision date
11/7/2017

page 1 / 3

Physical properties

	nominal range	typical values	
Density ASTM D 1817	1.25 ±0.02	1.25	g/cm ³
Hardness ASTM D2240, Shore A	70 ±5	72	Shore
Tensile strength ASTM D412	---	17.7	MPa
Elongation at Break ASTM D412	---	358	%
Tear strength ASTM D 624, C	---	48	KN/m
Compression set ASTM D 395, B, 22 h, 100 °C	---	10	%
Compression set ASTM D 395, B, 22 h, 125 °C	---	16	%
Compression set ASTM D 395, B, 70 h, 100 °C	---	16	%
Temperature range	-25°C to 100°C		

Declarations of conformity

	Country	Part	Remark	Expires	unlimited
RoHS conform			including EU 2011/65 and EU2015/863 (ROHS III)		<input checked="" type="checkbox"/>

Change after aging in Air: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	72	74	2
Tensile strength (ASTM D412)	MPa	17.7	18.6	5 %
Elongation at Break (ASTM D412)	%	358	300	-16 %

Freudenberg

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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)

	Base value	After aging	difference
Shore	72	70	-2
MPa	17.7	16.4	-7 %
%	358	318	-11 %
%		-0.8	

Typ. values

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)

	Base value	After aging	difference
Shore	72	54	-18
MPa	17.7	12.9	-27 %
%	358	254	-29 %
%		22.3	

Typ. values

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)

	Base value	After aging	difference
Shore	72	78	6
MPa	17.7	19.5	10 %
%	358	300	-16 %
%		-6.6	

Typ. values

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)

	Base value	After aging	difference
Shore	72	70	-2
MPa	17.7	17.9	1 %
%	358	304	-15 %
%		3.6	

Typ. values

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)

	Base value	After aging	difference
Shore	72	68	-4
MPa	17.7	18.1	2 %
%	358	321	-10 %
%		4.8	

Typ. values

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11/7/2017

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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