

Technical data sheet in accordance with ASTM

Material

NBR NB703303

black

cross linking: sulfur

revision index

2

revision date

2/17/2020

page

1 / 3

Physical properties

	nominal range	typical values	
Density ASTM D 297	1.50 ±0.03	1.48	g/cm ³
Hardness ASTM D 2240, Shore A	70 ±5	71	Shore
Tensile strength ASTM D 412	---	10	MPa
Elongation at Break ASTM D 412	---	480	%
Compression set ASTM D 395 B, 22 h, 100 °C, 25 %	---	14	%
Temperature range	-35°C to 90°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	71	73	2
Tensile strength (ASTM D412)	MPa	10	11.2	12 %
Elongation at Break (ASTM D412)	%	480	414	-14 %
volume change (ASTM D471)	%		-2	

Change after aging

in Fuel A: 70h/23°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	71	70	-1
Tensile strength (ASTM D412)	MPa	10	10.8	8 %
Elongation at Break (ASTM D412)	%	480	451	-6 %
volume change (ASTM D471)	%		1	

Freudenberg

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2

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page 2 / 3

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	
71	63	-8	
10	8	-20 %	
480	422	-12 %	
	15		

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	
71	72	1	
10	11.3	13 %	
480	408	-15 %	
	-2		

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	
71	68	-3	
10	10.6	6 %	
480	441	-8 %	
	5		

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2/17/2020

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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