

Technical data sheet in accordance with ASTM

Material

NBR NB703409

black

cross linking: sulfur

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Physical properties

	nominal range	typical values	
Density ASTM D 1817	1.24 ±0.02	1.24	g/cm ³
Hardness ASTM D2240, Shore A	70 ±5	71	Shore
Tensile strength ASTM D412	---	16.5	MPa
Elongation at break ASTM D412	---	353	%
Compression set ASTM D395, 22 h, 100 °C	---	10	%

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
ADI Free			see certificate	see DoC
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	75	4
Tensile strength (ASTM D573)	MPa	16.5	16.8	2 %
Elongation at break (ASTM D573)	%	353	300	-15 %
volume change (ASTM D573)	%		-2	

Freudenberg

Freudenberg Industrial Services GmbH
 Global Material Technology
 Nadja Güldner

Telefon: -
 Fax: -
 Email: FIS.Compound.CRC@fst.com



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Change after aging in Fuel A: 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	70	-1	
16.5	15.2	-8 %	
353	328.2	-7 %	
	1		

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	52	-19	
16.5	10.9	-34 %	
353	240	-32 %	
	26		

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	77	6	
16.5	17.3	5 %	
353	310.6	-12 %	
	-6		

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	69	-2	
16.5	16.7	1 %	
353	310.6	-12 %	
	7		

Change after aging in Water: 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	
16.5	16.8	2 %	
353	335.3	-5 %	
	7		

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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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