

Technical data sheet in accordance with ASTM

Material

NBR NB705001

black

cross linking: sulfur

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Physical properties

	nominal range	typical values	
Density ASTM D 792	1.25 ±0.03	1.25	g/cm ³
Hardness ASTM D2240, Shore A	70 ±5	70	Shore
Tensile strength ASTM D412/C	---	15.3	MPa
Elongation at break ASTM D412/C	---	340	%
Tear strength ASTM D 624, B	---	50	KN/m
Modulus 100 %, ASTM D 412-C	---	3.9	Psi
Low temperature test ASTM D1329, TR10	---	-26	°C
Low Temperature ASTM D3418, DSC	---	-28	°C
Low Temperature resistance ASTM D2137, Brittleness	---	-29	°C
Compression set ASTM D 395, Slab B, 22 h, 100 °C, 25 %	---	8	%
Compression set ASTM D 395, Slab B, 70 h, 100 °C, 25 %	---	15	%
Compression set ISO 815-1, Slab B, 24 h, 100 °C, 25 %	---	20	%

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
Info ROHS and ELV		EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

Freudenberg

Freudenberg Industrial Services GmbH
 Global Material Technology
 Nadja Güldner
 Telefon: -
 Fax: -
 Email: FIS.Compound.CRC@fst.com

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Country Part

Remark

Expires

Change after aging in Air: 70h/100°C

Hardness (ASTM D573, Shore A)
Tensile strength (ASTM D573)
Elongation at break (ASTM D573)

Shore
MPa
%

Typ. values			
Base value	After aging	difference	
70	74	4	
15.3	16.8	9 %	
340	272	-20 %	

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)
weight change

Shore
MPa
%
%
%

Typ. values			
Base value	After aging	difference	
70	71	1	
15.3	14.5	-5 %	
340	323	-5 %	
	1.7		
	1.1		

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)
weight change

Shore
MPa
%
%
%

Typ. values			
Base value	After aging	difference	
70	58	-12	
15.3	9.2	-40 %	
340	204	-40 %	
	25		
	16		

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)
weight change

Shore
MPa
%
%
%

Typ. values			
Base value	After aging	difference	
70	76	6	
15.3	16.8	10 %	
340	272	-20 %	
	-6.3		
	-4.5		

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

Typ. values

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

Shore
MPa
%
%
%

Base value	After aging	difference
70	68	-2
15.3	16.1	5 %
340	289	-15 %
	5	
	3	

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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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