

Technical data sheet in accordance with ASTM

Material

NBR NB802704

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ASTM D 1817	1.29 ±0.03	1.29	g/cm ³
Hardness ASTM D 2240, Shore A	80 ±5	80	Shore
Tensile strength ASTM D 412	---	15.5	MPa
Elongation at break ASTM D 412	---	225	%
Tear strength ASTM D 624 C	---	43	KN/m
Low temperature test ASTM D 1329, TR10	---	-18	°C
Low temperature test ASTM D1329, TR50	---	-16	°C
Low Temperature resistance ASTM D 746, Brittlenesspoint	---	-20	°C
Compression set ASTM D 395 B, 70 h, 125 °C, 25 %	---	26	%
Compression set ASTM D 395 B, 24 h, 100 °C, 25 %	---	13	%

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

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Change after aging in Air: 72h/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	
80	83.5	4	
15.5	15.2	-2 %	
225	182.3	-19 %	
	-4.1		

Change after aging in Air: 70h/125°C

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at break (ASTM D412)

Shore
MPa
%

Typ. values			
Base value	After aging	difference	
80	90	10	
15.5	16.3	5 %	
225	150.7	-33 %	

Change after aging in IRM 901: 72h/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	
80	83	3	
15.5	13.3	-14 %	
225	162	-28 %	
	-3.7		

Change after aging in IRM 901: 70h/150°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	
80	87	7	
15.5	14.7	-5 %	
225	146.3	-35 %	
	-5		

Change after aging in IRM 903: 72h/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	
80	75	-5	
15.5	14.4	-7 %	
225	177.8	-21 %	
	6		

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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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