

Technical data sheet in accordance with ASTM

Material

NBR NB609202

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ASTM D 181	1.30 ±0.03	1.27	g/cm ³
Hardness ASTM D 2240, Shore A	60 ±5	57	Shore
Tensile strength ASTM D 412/C	> 10	12	MPa
Elongation at break ASTM D 412/C	> 350	537	%
Modulus 100 %, ASTM D412/C	---	1.8	MPa
Tear strength ASTM D 624/C	> 30	45	KN/m
Ozone Resistance DIN ISO 1431-1, 40 °C, 72 h, 50 pphm, elongation 20%; no cracks	---	0	Rating
Compression set ASTM D 395/B, 72 h, 100 °C	< 35	14	%
Compression set ASTM D 395/B, 24 h, 100 °C	< 30	10	%
Compression set ASTM D 395/B, 168 h, 100 °C	< 35	23	%
Temperature range	-25°C to 115°C		

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: 70h/100°C

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

Shore
MPa
%
%
%

Typ. values			
Base value	After aging	difference	
57	61	4	
12	11.3	-6 %	
537	386.6	-28 %	
	-3.8		
	-3.5		

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	
57	59	2	
12	11.8	-2 %	
537	440.3	-18 %	
	-3		
	-3		

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)
weight change

Shore
MPa
%
%
%

Typ. values			
Base value	After aging	difference	
57	67	10	
12	13.2	10 %	
537	418.8	-22 %	
	-11		
	-10		

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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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