

Technical data sheet in accordance with ASTM

Material

NBR NB701807

black

cross linking: sulfur

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Physical properties

	nominal range	typical values	
Density CNS 5341-96	1.17 ±0.03	1.17	g/cm ³
Hardness ASTM D2240-15, Shore A	70 ±5	69	Shore
Tensile strength ASTM D412-16	> 14	20.7	MPa
Elongation at break ASTM D412-16	> 250	412	%
Modulus 100 %, ASTM D412-16	---	3.2	MPa
Compression set ASTM D395-18, Slab B, 22 h, 100 °C	< 25	11	%
Temperature range	-30°C to 100°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
ADI Free			see certificate	see DoC
BPA/Phthalate free			BPA/Phthalate free	see DoC
Info ROHS and ELV			EU 2000/53 (ELV) 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 D573-04, Shore A)	Shore	69	71	2
Tensile strength (ASTM D573-04)	MPa	20.7	20.3	-2 %
Elongation at break (ASTM D573-04)	%	412	337.8	-18 %
weight change	%		-0.7	

Freudenberg

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Change after aging in Fuel A: 70h/23°C

Hardness (ASTM D471-16a, Shore A)
Tensile strength (ASTM D471-16a)
Elongation at break (ASTM D471-16a)
volume change (ASTM D471-16a)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
69	66	-3	
20.7	18.8	-9 %	
412	383.1	-7 %	
	1.1		

Change after aging in Fuel B: 70h/23°C

Hardness (ASTM D471-16a, Shore A)
Tensile strength (ASTM D471-16a)
Elongation at break (ASTM D471-16a)
volume change (ASTM D471-16a)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
69	49	-20	
20.7	8.9	-57 %	
412	197.7	-52 %	
	36.7		

Change after aging in IRM 901: 70h/100°C

Hardness (ASTM D471-16a, Shore A)
Tensile strength (ASTM D471-16a)
Elongation at break (ASTM D471-16a)
volume change (ASTM D471-16a)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
69	70	1	
20.7	19.6	-5 %	
412	333.7	-19 %	
	-0.7		

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

Hardness (ASTM D471-16a, Shore A)
Tensile strength (ASTM D471-16a)
Elongation at break (ASTM D471-16a)
volume change (ASTM D471-16a)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
69	62	-7	
20.7	18.2	-12 %	
412	341.9	-17 %	
	11.8		

Change after aging in Water: 70h/100°C

Hardness (ASTM D471-16a, Shore A)
Tensile strength (ASTM D471-16a)
Elongation at break (ASTM D471-16a)
volume change (ASTM D471-16a)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
69	66	-3	
20.7	19.9	-4 %	
412	362.5	-12 %	
	4.1		

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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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