

Technical data sheet in accordance with ASTM

Material

NBR NB80C401

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	79	Shore
Tensile strength ASTM D 412	---	16.5	MPa
Elongation at break ASTM D 412	---	306	%
Compression set ASTM D 395, Slab B, 22 h, 100 °C, 25 %	---	18	%

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

Change after aging in Air: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	79	81	2
Tensile strength (ASTM D412)	MPa	16.5	17	3 %
Elongation at break (ASTM D412)	%	306	260	-15 %

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	79	84	5
Tensile strength (ASTM D412)	MPa	16.5	17.2	4 %
Elongation at break (ASTM D412)	%	306	241	-21 %
volume change (ASTM D471)	%		-7	

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 IRM 903: 70h/100°C

Typ. values

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

Base value	After aging	difference
79	78	-1
16.5	16	-3 %
306	208	-32 %
	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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Nadja Güldner
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Email: FIS.Compound.CRC@fst.com