

Technical data sheet in accordance with ASTM

Material

80 NBR NB803414 N801RBL

blue

cross linking: sulfur

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Physical properties

	nominal range	typical values	
Density ASTM D297	1.52 ±0.02	1.52	g/cm ³
Hardness ASTM D2240, Shore A	80 ±5	78	Shore
Tensile strength ASTM D412	---	16	MPa
Elongation at break ASTM D412	---	327	%
Compression set ASTM D395, 22 h, 100 °C	---	12	%

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

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A)	Shore	78	79	1
Tensile strength (ASTM D471)	MPa	16	15.5	-3 %
Elongation at break (ASTM D471)	%	327	307.3	-6 %
volume change (ASTM D471)	%		0	

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 Fuel B: 70h/23°C

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

Shore
MPa
%
%

Typ. values		
Base value	After aging	difference
78	67	-11
16	12.5	-22 %
327	225.6	-31 %
	18	

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)

Shore
MPa
%
%

Typ. values		
Base value	After aging	difference
78	85	7
16	18.9	18 %
327	238.7	-27 %
	-6	

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)

Shore
MPa
%
%

Typ. values		
Base value	After aging	difference
78	79	1
16	18.2	14 %
327	268.1	-18 %
	2	

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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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