DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Technical data sheet in accordance with ASTM

Material
NBR NB805001

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ASTM D1817	1.27 ±0.03	1.26	g/cm³
Hardness ASTM D2240, Shore A	80 ±5	80	Shore
Tensile strength ASTM D412/C	---	17.4	MPa
Elongation at break ASTM D412/C	---	250	%
Tear strength ASTM D624/C	---	43	KN/m
Modulus 100 %, ASTM D412	---	8.3	MPa
Low temperature test ASTM D1329, TR10	---	-18	°C
Compression set ASTM D395 B, 22 h, 100 °C, 25 %	---	8	%
Compression set DIN ISO 815-1, Slab B, 72 h, 100 °C, 25 %	---	16	%
Compression set ASTM D395 B, 70 h, 125 °C, 25 %	---	19	%

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

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 Air: 72h/125°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D573, Shore A)	Shore	80	89	9
Tensile strength (ASTM D573)	MPa	17.4	18.4	6 %
Elongation at break (ASTM D573)	%	250	132.5	-47 %
volume change (ASTM D573)	%		-3	
weight change	%		-2.5	

Change after aging in IRM 901: 72h/125°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A)	Shore	80	87	7
Tensile strength (ASTM D471)	MPa	17.4	19.5	12 %
Elongation at break (ASTM D471)	%	250	170	-32 %
volume change (ASTM D471)	%		-5	
weight change	%		-4	

Change after aging in IRM 903: 72h/125°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A)	Shore	80	77	-3
Tensile strength (ASTM D471)	MPa	17.4	19.5	12 %
Elongation at break (ASTM D471)	%	250	207.5	-17 %
volume change (ASTM D471)	%		4.5	
weight change	%		3.5	

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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 manufactories 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 provisons do not plan for something else.

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