DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Technical data sheet in accordance with ASTM

Material
NBR NB902803

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ASTM D297	1.29 ±0.02	1.29	g/cm³
Hardness ASTM D2240, Shore A	90 ±5	86	Shore
Tensile strength ASTM D412	> 10	19.7	MPa
Elongation at break ASTM D412	> 100	206	%
Modulus 100 %, ASTM D412	---	9.9	MPa
Compression set ASTM D395, Slab B, 22 h, 100 °C, solid button	25	6	%
Compression set ASTM D395, Slab B, 22 h, 100 °C, plied sheet	25	13	%
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
Info ROHS and ELV			EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC
PFOA / PFOS free			see certificate	see DoC

Change after aging
in Air: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D865, Shore A, 23 °C)	Shore	86	89	3
Tensile strength (ASTM D865, 23 °C)	MPa	19.7	17.8	-10 %
Elongation at break (ASTM D865, 23 °C)	%	206	151.6	-26 %

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 A: 70h/23°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A, 23 °C)	Shore	86	86	0
Tensile strength (ASTM D471)	MPa	19.7	17.6	-11 %
Elongation at break (ASTM D471)	%	206	188.9	-8 %
volume change (ASTM D471)	%		1.1	

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A, 23 °C)	Shore	86	68	-18
Tensile strength (ASTM D471)	MPa	19.7	14.4	-27 %
Elongation at break (ASTM D471)	%	206	175.7	-15 %
volume change (ASTM D471)	%		26	

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A)	Shore	86	88	2
Tensile strength (ASTM D471)	MPa	19.7	18.2	-8 %
Elongation at break (ASTM D471)	%	206	183.7	-11 %
volume change (ASTM D471)	%		-2.4	

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A, 23 °C)	Shore	86	80	-6
Tensile strength (ASTM D471)	MPa	19.7	19.3	-2 %
Elongation at break (ASTM D471)	%	206	191.3	-7 %
volume change (ASTM D471)	%		8.4	

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A, 23 °C)	Shore	86	84	-2
volume change (ASTM D471)	%		6.4	

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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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Fax: -

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