DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Technical data sheet in accordance with ASTM

Material
NBR NB603412

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ASTM D1817	1.24 ±0.02	1.24	g/cm³
Hardness ASTM D2240, Shore A	60 ±5	62	Shore
Tensile strength ASTM D412, C	---	13.5	MPa
Elongation at Break ASTM D412, C	---	449	%
Tear strength ASTM D624, C	---	48	KN/m
Ozone Resistance ASTM D1171, 40 °C, 72 h, 50 pphm, 20% (no crack)	---	0	Rating
Low temperature test ASTM D1329, TR10	---	-36	°C
Compression set ASTM D395, Slab B, 22 h, 100 °C, 25 %	---	7	%
Temperature range	-40°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
RoHS conform		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	58	68	10
Tensile strength (ASTM D412)	MPa	14.2	15.2	7 %
Elongation at Break (ASTM D412)	%	482	371.1	-23 %

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 D2240, Shore A)	Shore	58	60	2
Tensile strength (ASTM D412)	MPa	14.2	13.3	-6 %
Elongation at Break (ASTM D412)	%	482	457.9	-5 %
volume change (ASTM D471)	%		-1	

Change after aging in Fuel B: 70h/23°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	58	52	-6
Tensile strength (ASTM D412)	MPa	14.2	8.2	-42 %
Elongation at Break (ASTM D412)	%	482	308.5	-36 %
volume change (ASTM D471)	%		11	

Change after aging in IRM 901: 70h/100°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	58	65	7
Tensile strength (ASTM D412)	MPa	14.2	15.9	12 %
Elongation at Break (ASTM D412)	%	482	380.8	-21 %
volume change (ASTM D471)	%		-10	

Change after aging in IRM 903: 70h/100°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	58	59	1
Tensile strength (ASTM D412)	MPa	14.2	13.9	-2 %
Elongation at Break (ASTM D412)	%	482	385.6	-20 %
volume change (ASTM D471)	%		1	

Change after aging in Water: 70h/100°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	58	58	0
Tensile strength (ASTM D412)	MPa	14.2	12.3	-13 %
Elongation at Break (ASTM D412)	%	482	366.3	-24 %
volume change (ASTM D471)	%		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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Global Material Technology
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