DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Technical data sheet in accordance with ASTM

Material
NBR NB703412

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ASTM D297	1.28 ±0.02	1.28	g/cm³
Hardness ASTM D2240, Shore A	70 ±5	73	Shore
Tensile strength ASTM D412	---	17.7	MPa
Elongation at break ASTM D412	---	473	%
Compression set ASTM D395, 22 h, 100 °C	---	9	%
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
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 Air: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	73	81	8
Tensile strength (ASTM D412)	MPa	17.7	19.5	10 %
Elongation at break (ASTM D412)	%	473	406.7	-14 %

Freudenberg

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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	73	74	1
Tensile strength (ASTM D412)	MPa	17.7	18.1	2 %
Elongation at break (ASTM D412)	%	473	501.3	6 %
volume change (ASTM D471)	%		0	

Change after aging in Fuel B: 70h/23°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	73	83	10
Tensile strength (ASTM D412)	MPa	17.7	14.3	-19 %
Elongation at break (ASTM D412)	%	473	387.8	-18 %
volume change (ASTM D471)	%		18	

Change after aging in IRM 901: 70h/100°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	73	81	8
Tensile strength (ASTM D412)	MPa	17.7	20	13 %
Elongation at break (ASTM D412)	%	473	439.8	-7 %
volume change (ASTM D471)	%		-7	

Change after aging in IRM 903: 70h/100°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	73	73	0
Tensile strength (ASTM D412)	MPa	17.7	19.1	8 %
Elongation at break (ASTM D412)	%	473	435.1	-8 %
volume change (ASTM D471)	%		3	

Change after aging in Water: 70h/100°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	73	73	0
Tensile strength (ASTM D412)	MPa	17.7	17.5	-1 %
Elongation at break (ASTM D412)	%	473	425.7	-10 %
volume change (ASTM D471)	%		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 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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