DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Technical data sheet in accordance with ASTM

Material
NBR NB903411

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ASTM D1817	1.32 ±0.02	1.32	g/cm³
Hardness ASTM D2240, Shore A	90 ±5	88	Shore
Tensile strength ASTM D412	---	17.6	MPa
Elongation at Break ASTM D412	---	139	%
Tear strength ASTM D624, C	---	48	KN/m
Compression set ASTM D395, B, 22 h, 100 °C, 25 %	---	6	%
Temperature range	-35°C to 100°C		

Declarations of conformity

Country	Part	Remark	Expires	unlimited
RoHS conform		including EU 2011/65 and EU2015/863 (ROHS III)		☑

Change after aging in Air: 70h/100°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	88	91	3
Tensile strength (ASTM D412)	MPa	17.6	16.7	-5 %
Elongation at Break (ASTM D412)	%	139	106	-24 %
volume change (ASTM D573)	%		-2	

Change after aging in Fuel A: 70h/23°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	88	87	-1
Tensile strength (ASTM D412)	MPa	17.6	16.3	-7 %
Elongation at Break (ASTM D412)	%	139	126	-9 %
volume change (ASTM D471)	%		1	

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Change after aging in Fuel B: 70h/23°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	88	76	-12
Tensile strength (ASTM D412)	MPa	17.6	13.2	-25 %
Elongation at Break (ASTM D412)	%	139	104	-25 %
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	88	92	4
Tensile strength (ASTM D412)	MPa	17.6	17.2	-2 %
Elongation at Break (ASTM D412)	%	139	117	-16 %
volume change (ASTM D471)	%		-4	

Change after aging in IRM 903: 70h/100°C		Typ. values Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	88	84	-4
Tensile strength (ASTM D412)	MPa	17.6	17.8	1 %
Elongation at Break (ASTM D412)	%	139	113	-19 %
volume change (ASTM D471)	%		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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