DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Technical data sheet in accordance with ASTM

Material
NBR NB704816

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ISO 2781 A, 23 °C	1.23 ±0.02	1.23	g/cm³
Hardness Shore A, 23 °C	70 ±5	70	Shore
Tensile strength ISO 37 Typ 1	---	16	MPa
Elongation at Break ISO 37 Typ 1	---	380	%
Tear strength ISO 34-1, C, 23 °C	---	60	KN/m
Compression set ISO 815, A, 22 h, 100 °C, 25 %	---	8	%
Compression set ISO 815, A, 70 h, 125 °C, 25 %	---	14	%
Low-temperature resistance ISO 812, Brittleness point	---	-26	
Low temperature test ISO 2921, TR10	---	-24	°C
Ozone Resistance 40 °C, 70 h, 50 pphm, 2% Dehnung / elongation	---	0	Rating

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 (Shore A, 23 °C)	Shore	70	75	5
Tensile strength (ISO 37 Typ 1)	MPa	16	18.1	13 %
Elongation at Break (ISO 37 Typ 1)	%	380	304	-20 %

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Change after aging in ASTM-Oil No. 1: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (Shore A, 23 °C)	Shore	70	76	6
Tensile strength (ISO 37 Typ 1)	MPa	16	18.9	18 %
Elongation at Break (ISO 37 Typ 1)	%	380	304	-20 %
volume change (ISO 188 B)	%		-4.5	

Change after aging in ASTM-Oil No. 3: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (Shore A, 23 °C)	Shore	70	63	-7
Tensile strength (ISO 37 Typ 1)	MPa	16	16.3	2 %
Elongation at Break (ISO 37 Typ 1)	%	380	323	-15 %
volume change (ISO 188 B)	%		11	

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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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