DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Technical data sheet in accordance with ASTM

Material
EPDM EP702705

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ISO 2781	1.12 ±0.02	1.12	g/cm³
Hardness ASTM D2240, Shore A, 23 °C	70 ±5	70	Shore
Tensile strength ISO 37-1	---	14.8	MPa
Elongation at Break ISO 37-1	---	337	%
Tear strength ISO 34-1, C, 23 °C	---	55	KN/m
Low temperature test ISO 2921, TR10	---	-30	°C
Low-temperature resistance ISO 812	---	-53	
Compression set DIN ISO 815, B, 22 h, 100 °C, 25 %	---	15	%
Compression set DIN ISO 815, B, 70 h, 100 °C, 25 %	---	22	%
Compression set DIN ISO 815, B, 22 h, 125 °C, 25 %	---	21	%
Compression set DIN ISO 815, B, 70 h, 125 °C, 25 %	---	35	%
Ozone Resistance 40 °C, 70 h, 200 pphm, 100% Elongation	---	0	Rating

Temperature range -45°C to 130°C

Declarations of conformity

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

Freudenberg

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Global Material Technology
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ADI ANIMAL DERIVED INGREDIENT free CERTIFIED

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Change after aging in Air: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A, 23 °C)	Shore	70	73	3
Tensile strength (ISO 37-1, 23 °C)	MPa	14.8	15.2	3 %
Elongation at Break (ISO 37-1, 23 °C)	%	337	262.9	-22 %
volume change (ISO 188 B)	%		-1	

Change after aging in Air: 70h/125°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A, 23 °C)	Shore	70	75	5
Tensile strength (ISO 37-1, 23 °C)	MPa	14.8	15.4	4 %
Elongation at Break (ISO 37-1, 23 °C)	%	337	235.9	-30 %
volume change (ISO 188 B)	%		-6	

Change after aging in Air: 70h/140°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A, 23 °C)	Shore	70	76	6
Tensile strength (ISO 37-1, 23 °C)	MPa	14.8	16.3	10 %
Elongation at Break (ISO 37-1, 23 °C)	%	337	208.9	-38 %
volume change (ISO 188 B)	%		-8	

Change after aging in Air: 70h/150°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A, 23 °C)	Shore	70	78	8
Tensile strength (ISO 37-1, 23 °C)	MPa	14.8	16	8 %
Elongation at Break (ISO 37-1, 23 °C)	%	337	175.2	-48 %
volume change (ISO 188 B)	%		-8.2	

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A, 23 °C)	Shore	70	69	-1
Tensile strength (ISO 37-1, 23 °C)	MPa	14.8	14.1	-5 %
Elongation at Break (ISO 37-1, 23 °C)	%	337	293.2	-13 %
volume change (ISO 188 B)	%		2	

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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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