

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/cm ³	
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		<input checked="" type="checkbox"/>
RoHS conform			including EU 2011/65 and EU2015/863 (ROHS III)		<input checked="" type="checkbox"/>

Freudenberg

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Change after aging

in Air: 70h/100°C

Hardness (ASTM D2240, Shore A, 23 °C)
 Tensile strength (ISO 37-1, 23 °C)
 Elongation at Break (ISO 37-1, 23 °C)
 volume change (ISO 188 B)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
70	73	3	
14.8	15.2	3 %	
337	262.9	-22 %	
	-1		

Change after aging

in Air: 70h/125°C

Hardness (ASTM D2240, Shore A, 23 °C)
 Tensile strength (ISO 37-1, 23 °C)
 Elongation at Break (ISO 37-1, 23 °C)
 volume change (ISO 188 B)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
70	75	5	
14.8	15.4	4 %	
337	235.9	-30 %	
	-6		

Change after aging

in Air: 70h/140°C

Hardness (ASTM D2240, Shore A, 23 °C)
 Tensile strength (ISO 37-1, 23 °C)
 Elongation at Break (ISO 37-1, 23 °C)
 volume change (ISO 188 B)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
70	76	6	
14.8	16.3	10 %	
337	208.9	-38 %	
	-8		

Change after aging

in Air: 70h/150°C

Hardness (ASTM D2240, Shore A, 23 °C)
 Tensile strength (ISO 37-1, 23 °C)
 Elongation at Break (ISO 37-1, 23 °C)
 volume change (ISO 188 B)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
70	78	8	
14.8	16	8 %	
337	175.2	-48 %	
	-8.2		

Change after aging

in Water: 70h/100°C

Hardness (ASTM D2240, Shore A, 23 °C)
 Tensile strength (ISO 37-1, 23 °C)
 Elongation at Break (ISO 37-1, 23 °C)
 volume change (ISO 188 B)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
70	69	-1	
14.8	14.1	-5 %	
337	293.2	-13 %	
	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 manufacturing 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 provisions do not plan for something else.

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