

Technical data sheet in accordance with ASTM

Material

FKM FP805002

black

cross linking: bisphenolically

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Physical properties

	nominal range	typical values	
Density ASTM D 297	1.92 ±0.03	1.92	g/cm ³
Hardness ASTM D2240, Shore A	80 ±5	80	Shore
Modulus 100 %, ASTM D412	---	10.1	MPa
Tensile strength ASTM D412	---	14.5	MPa
Elongation at break ASTM D412	---	160	%
Low temperature test ASTM D1329, TR10	---	-17	°C
Low Temperature resistance ASTM D 2137/A, Brittleness	---	-16	°C
Compression set ASTM D395 B, 24 h, 175 °C	---	9	%
Compression set ISO 815-1, Slab B, 72 h, 175 °C	---	12	%
Compression set ASTM D395 B, 24 h, 200 °C	---	14	%
Compression set ASTM D395 B, 70 h, 200 °C	---	21	%

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
Info ROHS and ELV		EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

Freudenberg

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Change after aging in Air: 70h/250°C

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at break (ASTM D412)

Shore
MPa
%

Typ. values			
Base value	After aging	difference	
80	82	2	
14.8	15.4	4 %	
165	138.6	-16 %	

Change after aging in ASTM service fluid # 101: 70h/200°C

Hardness (ASTM D471, Shore A)
Tensile strength (ASTM D471)
Elongation at break (ASTM D471)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
80	73	-7	
14.5	10.3	-29 %	
160	137.6	-14 %	
	10.1		

Change after aging in Fuel C: 70h/23°C

Hardness (ASTM D471, Shore A)
Tensile strength (ASTM D471)
Elongation at break (ASTM D471)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
80	77	-3	
14.5	11.6	-20 %	
160	134.4	-16 %	
	3.9		

Change after aging in IRM 901: 70h/200°C

Hardness (FIAT 50413, Shore A)
Tensile strength (FIAT 50413)
Elongation at break (FIAT 50413)
volume change (FIAT 50413)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
80	79	-1	
14.5	14.9	3 %	
160	166.4	4 %	
	0.5		

Change after aging in IRM 903: 70h/150°C

Hardness (ASTM D471, Shore A)
Tensile strength (ASTM D471)
Elongation at break (ASTM D471)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
80	79	-1	
14.5	12.9	-11 %	
160	171.2	7 %	
	1.9		

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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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