

Technical data sheet in accordance with ASTM

Material

FKM FP800602

black

cross linking: bisphenolically

revision index	revision date	page	1 / 3
2	11/9/2022		
Physical properties	nominal range	typical values	
Density ASTM D297	1.85 ±0.03	1.85	g/cm ³
Hardness ASTM D2240, Shore A	80 ±5	83	Shore
Tensile strength ASTM D412	---	15.8	MPa
Elongation at break ASTM D412	---	204	%
Modulus 100 %, ASTM D412	---	6.1	MPa
Compression set ASTM D395, Slab B, 22 h, 175 °C	---	13	%
Compression set ASTM D395, Slab B, 22 h, 200 °C	---	18	%
Low temperature test ASTM D1329, TR10	---	-16.2	°C
Temperature range	static: -25°C to 250°C dynamic: -15°C to 250°C		

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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 Global Material Technology
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revision index

2

revision date

11/9/2022

page 2 / 3

Change after aging in Air: 70h/250°C

Hardness (ASTM D573, Shore A)
Tensile strength (ASTM D573)
Elongation at break (ASTM D573)
volume change (ASTM D573)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
83	84.7	2	
15.8	12.9	-18 %	
204	202	-1 %	
	-2.9		

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	
83	72.2	-11	
15.8	13.7	-13 %	
204	208	2 %	
	10.7		

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	
83	78.2	-5	
15.8	14.5	-8 %	
204	210.1	3 %	
	3.3		

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page 3 / 3

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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