

Technical data sheet in accordance with ASTM

Material

FKM FP801801

black

cross linking: bisphenolically

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Physical properties
Density

ASTM D297, 23 °C

nominal range

1.87 ±0.03

typical values

1.89

 g/cm³
Hardness

ASTM D2240, Shore A, 23 °C

80 ±5

80

Shore

Tensile strength

ASTM D412, 23 °C

15

MPa

Elongation at Break

ASTM D412, 23 °C

171

%

Low temperature test

ASTM D1329, TR10

-16.1

°C

Compression set

ASTM D395, B, 22 h, 200 °C, 25 %

13.9

%

Temperature range

-20°C to 200°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"/>

Change after aging
in Air: 70h/250°C
Typ. values

 Hardness (ASTM D2240, Shore A, 23 °C)
 Tensile strength (ASTM D412)
 Elongation at Break (ASTM D412)

 Shore
 MPa
 %

Base value After aging difference

80	81	1
15	15.1	1 %
171	162.4	-5 %

Freudenberg

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

Hardness (ASTM D2240, Shore A, 23 °C)
 Tensile strength (ASTM D412)
 Elongation at Break (ASTM D412)
 volume change (ASTM D471)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
80	71	-9	
15	12.8	-15 %	
171	165.9	-3 %	
	10		

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

Hardness (ASTM D2240, Shore A, 23 °C)
 Tensile strength (ASTM D412)
 Elongation at Break (ASTM D412)
 volume change (ASTM D471)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
80	77	-3	
15	13.7	-9 %	
171	162.4	-5 %	
	3.2		

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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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