

Technical data sheet in accordance with ASTM

Material

75 FKM 177645

brown

cross linking: bisphenolically

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Physical properties

	nominal range	typical values	
Density DIN EN ISO 1183-1	1.97 ±0.03	1.98	g/cm ³
Hardness ASTM D 2240, Shore A	75 ±5	74	Shore
Tensile strength ASTM D 412	10	13.6	MPa
Elongation at break ASTM D 412	175	241	%
Modulus 100 %, ASTM D412	---	5.5	MPa
Modulus 200 %, ASTM D412	---	11.9	MPa
Compression set ASTM D395, Slab B, 22 h, 200 °C	---	18	%
Temperature range	-20°C to 200°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

Freudenberg FST GmbH
Technology&Innovation
Material Compliance

Telefon: -

Fax: -

Email: MaterialCompliance@fst.com

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Tested after ASTM D 2000: M 4 HK 710 A1-11 B38 EF31 EO78 Z1 Z2

		nominal range	typical values
Hardness	Shore	70 ±5	75
Tensile strength	MPa	min. 10	12.6
Elongation at break	%	min. 175	224
A1-11 Change after aging in Air 70h/275°C			
Hardness	Shore A	10	2
Tensile strength	%	-40	4.8
Elongation at break	%	-20	-10.4
B38 Compression set 22h/200°C			
	%	50	25
EF31 Change after aging in Fuel C 70h/23°C			
Hardness	Shore	±5	-2
Tensile strength	MPa	-25	-12.2
Elongation at break	%	-20	2.4
Volume	%	0 to 10	1.5
EO78 Change after aging in Fluid No. 101 70h/200°C			
Hardness	Shore	-15 to 5	-7
Tensile strength	MPa	-40	-30.9
Elongation at break	%	-20	2.5
Volume	%	0 to 15	9.8
Z1 Density DIN EN ISO 1183-1, 23 °C			
	g/cm ³	---	1.98
Z2 Hardness DIN ISO 7619-1, Shore A, 23 °C			
	Shore	---	75

The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. The data from finished parts can deviate from above values depending on the manufactories process and the component geometry.

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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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Fax: -

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