

Material

80 FKM 610

brown
cross linking: bisphenolically

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12/10/2012

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Physical properties

	required	actual	
Density DIN EN ISO 1183	2.10 ±0.03	2.09	g/cm ³
Hardness DIN ISO 7619-1	80 ±5	83	Shore
Micro hardness DIN ISO 48 Verfahren M	80 +5/-8	82	IRHD
Rebound resilience DIN 53512	> 3	6	%
Modulus 100 %, DIN 53504, S2, 23 °C	> 8	10.5	MPa
Tensile strength DIN 53504, S2	> 10	13.6	MPa
Elongation at break DIN 53504, S2	> 120	145	%
Compression set DIN ISO 815, 22 h, 175 °C	< 25	15	%
Compression set DIN ISO 815, I, 24 h, 200 °C, 25 %	< 30	18	%
Low Temperature DIN 53765, nach DSC	< 15	-19	°C

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Tested after ASTM D 2000: M 2 HK 807 A1-10 B37 B38 EF31 EO78 F15 Z1 Z2

		required	actual
	Hardness	Shore 80 ±5	81
	Tensile strength	MPa min. 7	13.6
	Elongation at break	% min. 150	120
A1-10	Change after aging in Air 70h/250°C		
	Hardness	Shore A 10	3
	Tensile strength	% -25	12
	Elongation at break	% -25	-6
B37	Compression set 22h/175°C	% 50	10
B38	Compression set 22h/200°C	% 50	14
EF31	Change after aging in Fuel C 70h/23°C		
	Hardness	Shore ±5	-1
	Tensile strength	% -25	-25
	Elongation at break	% -20	-20
	Volume	% 0 to 10	3
EO78	Change after aging in Fluid No. 101 70h/200°C		
	Hardness	Shore -15 to 5	-7
	Tensile strength	% -40	-9
	Elongation at break	% -20	-1
	Volume	% 0 to 15	9
F15	Low-temperature resistance after 3 min at -25 °C 3min./-25°C	°C pass	
Z1	Elongation at break DIN 53504	% ---	120
Z2	Density DIN EN ISO 1183, 20 °C	g/cm ³ ---	2.1

Temperature-range: - 25 °C to 200 °C

Compliant with the EU-directives 2011/65/EC (RoHS) and 2002/95/EC (RoHS).

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 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.