

Material 75 FKM 595

auburn

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Physical properties

	required	actual	
Density DIN EN ISO 1183-1	2.00 ±0.03	2.00	g/cm³
Hardness DIN ISO 7619-1	75 ±5	75	Shore
Rebound resilience DIN 53512	> 3	6	%
Modulus 100 %, DIN 53504, S2	> 3.5	5.9	MPa
Tensile strength DIN 53504, S2	> 7.5	9.8	MPa
Elongation at break DIN 53504, S2	> 200	278	%
Compression set DIN ISO 815, 22 h, 175 °C	< 45	33	%
Tear strength DIN 53515	> 8	12.5	KN/m
Low Temperature DIN 53765, DSC	---	-18	°C

Certificates
RoHS

Country Part

Remark

Expires unlimited
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Tested after ASTM D 2000: M 2 HK 707 A1-10 B37 B38 EF31 EO78 Z1 Z2 Z3 Z4

		required	actual
Hardness	Shore	70 ±5	75
Tensile strength	MPa	min. 7	10.1
Elongation at break	%	min. 175	272
A1-10 Change after aging in Air 70h/250°C			
Hardness	Shore A	10	7
Tensile strength	%	-25	12
Elongation at break	%	-25	-22
B37 Compression set 22h/175°C	%	50	25
B38 Compression set 22h/200°C	%	50	38
EF31 Change after aging in Fuel C 70h/23°C			
Hardness	Shore	±5	-2
Tensile strength	%	-25	-14
Elongation at break	%	-20	-10
Volume	%	0 to 10	3.5
EO78 Change after aging in Fluid No. 101 70h/200°C			
Hardness	Shore	-15 to 5	-7
Tensile strength	%	-40	-22
Elongation at break	%	-20	-15
Volume	%	0 to 15	13.2
Z1 Hardness DIN 53505, Shore A, 23 °C	Shore	75 ±5	75
Z2 Low Temperature DIN 3761 Teil 15, DSC	°C	---	-18
Z3 Low-temperature resistance (F13) ASTM D2137, Method A, 3 min/-10°C		pass	pass
Z4 Change after aging in IRM 903 70h/150°C			
Hardness DIN 53505, Shore A, 23 °C	Shore	0	-1



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Tensile strength DIN 53504, S2, 23 °C		N/mm ²	---	-8
Elongation at break DIN 53504, S2, 23 °C		%	---	-2
volume change DIN 53521		%	10	1

Temperature-range: - 30 °C to +200 °C (Depending on the specific applikations and lubricants)
Max. permanent temperature in gear oil: + 150 °C

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.

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.

