

Material

80 NBR 709

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Physical properties

	required	actual	
Density DIN EN ISO 1183-1	1.26 ±0.02	1.27	g/cm³
Hardness DIN ISO 7619-1	80 ±5	80	Shore
Rebound resilience DIN 53512	> 20	29	%
Modulus 100 %, DIN 53504, S2	> 8	10.2	MPa
Tensile strength DIN 53504, S2	> 12	16.9	MPa
Elongation at break DIN 53504, S2	> 200	290	%
Compression set DIN ISO 815, 22 h, 100 °C	< 35	25	%

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Tested after ASTM D 2000: M 6 BG 814 A14 B14 B34 EO14 EO34 F17

		required	actual
Hardness	Shore	80 ±5	80
Tensile strength	MPa	min. 14	16.5
Elongation at break	%	min. 125	280
A14 Change after aging in Air 70h/100°C			
Hardness	Shore A	±15	3
Tensile strength	%	-20	10
Elongation at break	%	-40	-17
B14 Compression set 22h/100°C	%	25	15
B34 Compression set 22h/100°C	%	25	18
EO14 Change after aging in IRM 901 70h/100°C			
Hardness	Shore A	-5 to 15	2
Tensile strength	%	-25	12
Elongation at break	%	-45	-3
Volume	%	-10 to 5	-3
EO34 Change after aging in IRM 903 70h/100°C			
Hardness	Shore A	0 to -20	-10
Tensile strength	%	-45	10
Elongation at break	%	-45	1
Volume	%	0 to 35	15
F17 Low-temperature resistance after 3 min at -40 °C 3min./-40°C	°C	pass	

Temperature-range: - 30 °C to +100 °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.