

Material 57 CR 868

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Physical properties

	required	actual	
Density DIN EN ISO 1183-1	1.48 ±0.02	1.48	g/cm³
Hardness DIN ISO 7619-1	57 ±5	58	Shore
Rebound resilience DIN 53512	---	40	%
Modulus 100 %, DIN 53504, S2	---	1.8	MPa
Tensile strength DIN 53504, S2	> 10	13.9	MPa
Elongation at break DIN 53504, S2	> 300	420	%
Compression set DIN ISO 815, 22 h, 100 °C	---	24	%

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Tested after ASTM D 2000: M 2 BC 510 A14 B14 C12 EO14 EO34 F17 G21

		required	actual
Hardness	Shore	50 ±5	54
Tensile strength	MPa	min. 10	13.8
Elongation at break	%	min. 350	475
A14 Change after aging in Air 70h/100°C			
Hardness	Shore	15	2
Tensile strength	%	-15	-1
Elongation at break	%	-40	-6
B14 Compression set 22h/100°C	%	35	12
C12 Ozone Resistance 38°C	%	100	1
EO14 Change after aging in IRM 901 70h/100°C			
Hardness	Shore	±10	-1
Tensile strength	%	-30	-5
Elongation at break	%	-30	-10
Volume	%	-10 to 15	-2
EO34 Change after aging in IRM 903 70h/100°C			
Tensile strength	%	-70	-40
Elongation at break	%	-55	-38
Volume	%	120	55
F17 Low-temperature resistance after 3 min at -40 °C 3min./-40°C	°C	pass	
G21 Tear Resistance 7-10 MPa 23°C	MPa	26	35

Temperature-range: - 40 °C to +100 °C

The material has an excellent weather and ozone resistance. The diesel fuel- and mineral oil resistance is adequate.

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.