

Material

57 CR 868

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Physical properties

| | nominal range | typical values | |
|---|----------------|----------------|-------------------|
| Density DIN EN ISO 1183-1 | 1.48 ±0.02 | 1.48 | g/cm ³ |
| Hardness DIN ISO 7619-1 | 57 ±5 | 58 | Shore |
| Micro hardness DIN ISO 48 | 60 +5/-8 | --- | IRHD |
| Rebound resilience DIN 53512 | --- | 40 | % |
| Modulus 100 %, DIN 53504, S2 | > 1 | 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 | % |
| Temperature range | -40°C to 100°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 |

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

| | | nominal range | typical values |
|---|-------|------------------|-------------------|
| 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 | | | |
| | | pass | |
| G21 Tear Resistance 7-10 MPa 23°C | | | |
| | MPa | 26 | 35 |

The material has an excellent ozone- and weather resistance. Resistance in diesel or mineral oil is sufficient.

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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 provisons do not plan for something else.

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