

Material

70 EPDM 291

black

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Physical properties

| | nominal range | typical values | |
|---|---|----------------|-------------------|
| Density DIN EN ISO 1183-1, 23 °C | 1.09 ±0.02 | 1.09 | g/cm ³ |
| Hardness DIN ISO 48-4, Shore A, 23 °C | 75 ±5 | 79 | Shore |
| Modulus 100 %, DIN 53504, S2, 23 °C | > 8 | 10.8 | MPa |
| Tensile strength DIN 53504, S2, 23 °C | > 14 | 16 | MPa |
| Elongation at break DIN 53504, S2, 23 °C | > 150 | 160 | % |
| Compression set DIN ISO 815, Slab B, 24 h, 150 °C, 25 % | < 20 | 11 | % |
| Low Temperature ISO 11357-2, DSC | < -48 | -53 | °C |
| Low temperature test ISO 2921, TR10 | < -44 | -47 | °C |
| Temperature range | static: -50°C to 150°C dynamic: -40°C to 150°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 |
|--------------------------|---------|-------|----------------------|-----------|
| (EG) 1935/2004 | EU | | food | see DoC |
| (EG) 2023/2006 (GMP) | EU | | (EG) 2023/2006 (GMP) | see DoC |
| 3-A Sanitary | USA | Seals | Class II | 12 / 2027 |
| ADI Free | | | see certificate | see DoC |
| BFR XXI, Kat 4 | DE | | food | see DoC |
| BPA/Phthalate free | | | BPA/Phthalate free | see DoC |
| CMR Category 1A/1B free | | | see certificate | see DoC |
| Cytotoxicity USP chapter | - | Seals | | 11 / 2032 |

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| | Country | Part | Remark | Expires |
|--------------------------|---------|--------|---|-----------|
| 87 & 88 (class VI) | | | | |
| Decree of 21. March 1973 | IT | O-Ring | | 09 / 2028 |
| FDA | USA | Seals | § 177.2600 | 05 / 2027 |
| French Arrêté 2020 | F | Seals | | 08 / 2028 |
| Info ROHS and ELV | | | EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III) | see DoC |
| NSF 51 | USA | Seals | | see DoC |
| NSF 61 | USA | O-Ring | Drinking water | see DoC |
| WRAS BS 6920 | GB | O-Ring | 85 °C | 11 / 2027 |

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No ASTM D2000 properties available

Application in water and water vapor to max. 180 °C, for short time max. 210 °C

Ozone resistance: to 1000 pphm (40 °C)

The given values are based on a limited number of tests on standard test pieces (2mm sheets). 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.

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