

Technical data sheet in accordance with ASTM

Material

FKM FP801801

black

cross linking: bisphenolically

| | | | |
|-----------------------|----------------------|-------------|--------------|
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| 5 | 1/9/2024 | | |

| Physical properties | nominal range | typical values | |
|---|----------------|----------------|-------------------|
| Density CNS 5341-96 | 1.87 ±0.03 | 1.86 | g/cm ³ |
| Hardness ASTM D2240-15, Shore A | 80 ±5 | 82 | Shore |
| Tensile strength ASTM D412-16 | > 10 | 14 | MPa |
| Elongation at break ASTM D412-16 | > 150 | 169 | % |
| Modulus 100 %, ASTM D412-16 | --- | 8.2 | MPa |
| Compression set ASTM D395-18, Slab B, 22 h, 200 °C, plied | < 50 | 17 | % |
| Temperature range | -20°C to 200°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 |
|---|---------|------|--|-----------|
| ADI Free | | | see certificate | see DoC |
| DVGW Baumusterprüfzertifikat Gas | D | | DIN EN 549 H3 E1 | 01 / 2027 |
| DVGW type examination certificate- Gas | D | | DIN EN 549 H3 E1 | 01 / 2027 |
| Info ROHS and ELV | | | EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III) | see DoC |

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Change after aging in Air: 70h/250°C

Hardness (ASTM D573-04, Shore A)
 Tensile strength (ASTM D573-04)
 Elongation at break (ASTM D573-04)
 weight change

Shore
 MPa
 %
 %

| Typ. values | | | |
|-------------|-------------|------------|--|
| Base value | After aging | difference | |
| 82 | 84 | 2 | |
| 14 | 13.3 | -5 % | |
| 169 | 133.5 | -21 % | |
| | -1.6 | | |

Change after aging in ASTM service fluid # 101: 70h/200°C

Hardness (ASTM D471-16a, Shore A)
 Tensile strength (ASTM D471-16a)
 Elongation at break (ASTM D471-16a)
 volume change (ASTM D471-16a)

Shore
 MPa
 %
 %

| Typ. values | | | |
|-------------|-------------|------------|--|
| Base value | After aging | difference | |
| 82 | 74 | -8 | |
| 14 | 11.9 | -15 % | |
| 169 | 160.5 | -5 % | |
| | 8.4 | | |

Change after aging in Fuel C: 70h/23°C

Hardness (ASTM D471-16a, Shore A)
 Tensile strength (ASTM D471-16a)
 Elongation at break (ASTM D471-16a)
 volume change (ASTM D471-16a)

Shore
 MPa
 %
 %

| Typ. values | | | |
|-------------|-------------|------------|--|
| Base value | After aging | difference | |
| 82 | 79 | -3 | |
| 14 | 12.5 | -11 % | |
| 169 | 155.4 | -8 % | |
| | 2.5 | | |

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No ASTM D2000 properties available

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 manufacturing 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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