

# Material

## 76 FKM 82727

black

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### Physical properties

|                                                     | nominal range | typical values |                   |
|-----------------------------------------------------|---------------|----------------|-------------------|
| <b>Density</b><br>DIN EN ISO 1183-1                 | 1.84 ±0.03    | 1.84           | g/cm <sup>3</sup> |
| <b>Hardness</b><br>DIN ISO 7619-1                   | 76 ±5         | 78             | Shore             |
| <b>Micro hardness</b><br>DIN ISO 48                 | 76 +5/-8      | 77             | IRHD              |
| <b>Rebound resilience</b><br>DIN 53512              | ---           | 5              | %                 |
| <b>Modulus</b><br>100 %, DIN 53504, S2              | > 4           | 5.8            | MPa               |
| <b>Tensile strength</b><br>DIN 53504, S2            | > 8.5         | 12.2           | MPa               |
| <b>Elongation at break</b><br>DIN 53504, S2         | > 150         | 180            | %                 |
| <b>Compression set</b><br>DIN ISO 815, 22 h, 200 °C | ---           | 25             | %                 |

### Temperature range

-15°C to 200°C

### Declarations of conformity

No data found!

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Tested after ASTM D 2000: M 2 HK 810 A1-10 B37 B38 EF31 EO78 F15

|                                                                         |         | nominal<br>range | typical<br>values |
|-------------------------------------------------------------------------|---------|------------------|-------------------|
| Hardness                                                                | Shore   | 80 ±5            | 78                |
| Tensile strength                                                        | MPa     | min. 10          | 12                |
| Elongation at break                                                     | %       | min. 150         | 200               |
| <b>A1-10 Change after aging in Air 70h/250°C</b>                        |         |                  |                   |
| Hardness                                                                | Shore A | 10               | 3                 |
| Tensile strength                                                        | %       | -25              | 10                |
| Elongation at break                                                     | %       | -25              | -18               |
| <b>B37 Compression set 22h/175°C</b>                                    | %       | 50               | 12                |
| <b>B38 Compression set 22h/200°C</b>                                    | %       | 50               | 22                |
| <b>EF31 Change after aging in Fuel C 70h/23°C</b>                       |         |                  |                   |
| Hardness                                                                | Shore   | ±5               | -2                |
| Tensile strength                                                        | %       | -25              | -10               |
| Elongation at break                                                     | %       | -20              | -12               |
| Volume                                                                  | %       | 0 to 10          | 3                 |
| <b>EO78 Change after aging in Fluid No. 101 70h/200°C</b>               |         |                  |                   |
| Hardness                                                                | Shore   | -15 to 5         | -7                |
| Tensile strength                                                        | %       | -40              | -20               |
| Elongation at break                                                     | %       | -20              | -10               |
| Volume                                                                  | %       | 0 to 15          | 11                |
| <b>F15 Low-temperature resistance after 3 min at -25 °C 3min./-25°C</b> |         | pass             |                   |

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.

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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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