

Technical data sheet in accordance with ASTM

# Material

## 75 FKM V7513Z

black

cross linking: bisphenolically

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**revision date**

10/1/2021

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### Physical properties

|  | nominal range | typical values |                   |
|--|---------------|----------------|-------------------|
| <b>Density</b><br>ASTM D 297                               | ---           | 1.85           | g/cm <sup>3</sup> |
| <b>Hardness</b><br>ASTM D 2240, Shore A                    | 75 ±5         | 74             | Shore             |
| <b>Tensile strength</b><br>ASTM D 412                      | > 10          | 16.41          | MPa               |
| <b>Elongation at break</b><br>ASTM D 412                   | > 175         | 230            | %                 |
| <b>Tear strength</b><br>ASTM D624, C                       | ---           | 30.4           | KN/m              |
| <b>Modulus</b><br>100 %, ASTM D412                         | ---           | 6.13           | MPa               |
| <b>Modulus</b><br>200 %, ASTM D412                         | ---           | 14.15          | MPa               |
| <b>Compression set</b><br>ASTM D 395, Slab B, 22 h, 175 °C | ---           | 8              | %                 |
| <b>Compression set</b><br>ASTM D 395, Slab B, 22 h, 200 °C | < 50          | 12             | %                 |

### Declarations of conformity

No data found!

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Tested after ASTM D 2000: M 4 HK 710 A1-11 B38 EF31 EO78 Z1 Z2 Z3 Z4 Z5 Z6

|   |                   | nominal<br>range | typical<br>values |
|---|-------------------|------------------|-------------------|
| Tensile strength  | MPa               | min. 10          | 16.4              |
| Elongation at break                                       | %                 | min. 175         | 230               |
| <b>A1-11 Change after aging in Air 70h/275°C</b>          |                   |                  |                   |
| Hardness  | Shore A           | 10               | -1                |
| Tensile strength  | %                 | -40              | -29               |
| Elongation at break                                       | %                 | -20              | 35                |
| <b>B37 Compression set 22h/175°C</b>                      | %                 | ---              | 8                 |
| <b>B38 Compression set 22h/200°C</b>                      | %                 | 50               | 12                |
| <b>EF31 Change after aging in Fuel C 70h/23°C</b>         |                   |                  |                   |
| Hardness  | Shore             | ±5               | -3                |
| Tensile strength  | MPa               | -25              | -16               |
| Elongation at break                                       | %                 | -20              | -4                |
| Volume  | %                 | 0 to 10          | 3.7               |
| <b>EO78 Change after aging in Fluid No. 101 70h/200°C</b> |                   |                  |                   |
| Hardness  | Shore             | -15 to 5         | -7                |
| Tensile strength  | MPa               | -40              | -7                |
| Elongation at break                                       | %                 | -20              | 10                |
| Volume  | %                 | 0 to 15          | 10.9              |
| <b>Z1 Modulus 100 %, ASTM D412</b>                        | MPa               | ---              | 6.13              |
| <b>Z2 Modulus 200 %, ASTM D412</b>                        | MPa               | ---              | 14.15             |
| <b>Z3 Density</b>   | g/cm <sup>3</sup> | ---              | 1.847             |

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|----------------|--|-------|-------|-------|
| 1              | 10/1/2021                                  |       |       |       |
| <b>Z4</b>      | <b>Tear strength ASTM D624, C</b>          | KN/m  | ---   | 30.4  |
| <b>Z5</b>      | <b>Change after aging in Air 70h/250°C</b> |       |       |       |
|                | Hardness ASTM D 2240, Shore A              | Shore | ---   | 2     |
|                | Tensile strength ASTM D 412                | %     | ---   | -1    |
|                | Elongation at break ASTM D 412             | %     | ---   | 1     |
|                | volume change                              | %     | ---   | -1    |
| <b>Z6</b>      | <b>Hardness ASTM D2240, Shore A</b>        | Shore | 75 ±5 | 74    |

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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