



Technical data sheet in accordance with ASTM

## Material VMQ SI702714

red

cross linking: peroxidic

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|-------------------------------------------------------------------------------|----------------|-------------------------------|-----------------------|-------------------|
| 10/6/2017                                                                     | 1              | 5/30/2017                     |                       |                   |
| <b>Physical properties</b>                                                    |                |                               |                       |                   |
| <b>Density</b><br>ASTM D 1817                                                 |                | <b>required</b><br>1.33 ±0.03 | <b>actual</b><br>1.33 | g/cm <sup>3</sup> |
| <b>Hardness</b><br>ASTM D2240, Shore A                                        |                | 70 ±5                         | 70                    | Shore             |
| <b>Tensile strength</b><br>ASTM D412                                          |                | ---                           | 7.2                   | MPa               |
| <b>Elongation at Break</b><br>ASTM D412                                       |                | ---                           | 220                   | %                 |
| <b>Low temperature test</b><br>ASTM D1329, TR10                               |                | ---                           | -43                   | °C                |
| <b>Low temperature test</b><br>ASTM D1329, TR30                               |                | ---                           | -36                   | °C                |
| <b>Low temperature test</b><br>ASTM D1329, TR50                               |                | ---                           | -36                   | °C                |
| <b>Low-temperature resistance</b><br>ASTM D 2137, Method A, Brittleness Point |                | ---                           | -65                   | °C                |
| <b>Compression set</b><br>ASTM D395, B, 22 h, 175 °C                          |                | ---                           | 17                    | %                 |
| <b>Compression set</b><br>ASTM D395, B, 70 h, 200 °C                          |                | ---                           | 65                    | %                 |

| Certificates         | Country | Part  | Remark                     | Expires | unlimited                           |
|----------------------|---------|-------|----------------------------|---------|-------------------------------------|
| (EG) 2023/2006 (GMP) | EU      |       | (EG) 2023/2006 (GMP)       |         | <input checked="" type="checkbox"/> |
| FDA                  | USA     | Seals | § 177.2600                 |         | <input checked="" type="checkbox"/> |
| LFGB                 | EU      |       | XV. recommendation         |         | <input checked="" type="checkbox"/> |
| RoHS                 |         |       | 2015/863/EU and 2011/65/EU |         | <input checked="" type="checkbox"/> |

### Change after aging in Air: 70h/200°C

|                                       |       | Typ. values |             |            |
|---------------------------------------|-------|-------------|-------------|------------|
|                                       |       | base        | after aging | difference |
| Hardness (ASTM D2240, Shore A, 23 °C) | Shore | 70          | 76          | 6          |
| Elongation at Break (ASTM D412)       | %     | 220         | 154         | -30 %      |
| volume change (ASTM D471)             | %     |             | 0           |            |

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### Change after aging in ASTM-Oil No. 1: 70h/150°C

|                                       |       |
|---------------------------------------|-------|
| Hardness (ASTM D2240, Shore A, 23 °C) | Shore |
| Tensile strength (ASTM D412)          | MPa   |
| Elongation at Break (ASTM D412)       | %     |
| volume change (ASTM D471)             | %     |

#### Typ. values

| base | after aging | difference |
|------|-------------|------------|
| 70   | 61          | -9         |
| 7.2  | 5.9         | -18 %      |
| 220  | 178.2       | -19 %      |
|      | 5           |            |

### Change after aging in ASTM-Oil No. 3: 70h/150°C

|                           |   |
|---------------------------|---|
| volume change (ASTM D471) | % |
|---------------------------|---|

#### Typ. values

| base | after aging | difference |
|------|-------------|------------|
|      | 53          |            |

### Change after aging in Water: 70h/100°C

|                                       |       |
|---------------------------------------|-------|
| Hardness (ASTM D2240, Shore A, 23 °C) | Shore |
| volume change (ASTM D471)             | %     |

| base | after aging | difference |
|------|-------------|------------|
| 70   | 67          | -3         |
|      | 3           |            |

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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