



**DICHTOMATIK**  
Any seal. Any time.

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**FREUDENBERG**

Technical data sheet in accordance with ASTM

## Material VMQ SI701807

auburn

cross linking: peroxidic

**print date** 10/2/2017 **revision index** 1 **revision date** 7/3/2017

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### Physical properties

|                                                                         | required   | actual |                   |
|-------------------------------------------------------------------------|------------|--------|-------------------|
| <b>Density</b><br>ASTM D1817                                            | 1.31 ±0.03 | 1.31   | g/cm <sup>3</sup> |
| <b>Hardness</b><br>ASTM D2240, Shore A                                  | 70 ±5      | 70     | Shore             |
| <b>Tensile strength</b><br>ASTM D412                                    | ---        | 6.6    | MPa               |
| <b>Elongation at Break</b><br>ASTM D412                                 | ---        | 229    | %                 |
| <b>Low temperature test</b><br>ASTM D1329, TR10                         | ---        | -42.8  | °C                |
| <b>Tear strength</b><br>ASTM D 624, B                                   | ---        | 17.9   | KN/m              |
| <b>Compression set</b><br>ASTM D395, B, 22 h, 175 °C, 25 %              | ---        | 24.3   | %                 |
| <b>Low-temperature resistance</b><br>ASTM D 2137, 3 min, Method A, pass | ---        | -55    | °C                |

| Certificates         | Country | Part  | Remark                     | Expires | unlimited                           |
|----------------------|---------|-------|----------------------------|---------|-------------------------------------|
| (EG) 1935/2004       | EU      |       | food                       |         | <input checked="" type="checkbox"/> |
| (EG) 2023/2006 (GMP) | EU      |       | (EG) 2023/2006 (GMP)       |         | <input checked="" type="checkbox"/> |
| BfR XV               |         |       | BfR XV                     |         | <input checked="" type="checkbox"/> |
| FDA                  | USA     | Seals | § 177.2600                 |         | <input checked="" type="checkbox"/> |
| RoHS                 |         |       | 2015/863/EU and 2011/65/EU |         | <input checked="" type="checkbox"/> |

### Change after aging in Air: 70h/225°C

#### Typ. values

|                                 |       | base | after aging | difference |
|---------------------------------|-------|------|-------------|------------|
| Hardness (ASTM D2240, Shore A)  | Shore | 70   | 68          | -2         |
| Tensile strength (ASTM D412)    | MPa   | 6.6  | 5.9         | -11 %      |
| Elongation at Break (ASTM D412) | %     | 229  | 164.9       | -28 %      |

### Freudenberg

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### Change after aging in IRM 901: 70h/150°C

|                                 |       | Typ. values |             |            |
|---------------------------------|-------|-------------|-------------|------------|
|                                 |       | base        | after aging | difference |
| Hardness (ASTM D2240, Shore A)  | Shore | 70          | 66          | -4         |
| Tensile strength (ASTM D412)    | MPa   | 6.6         | 6.8         | 3 %        |
| Elongation at Break (ASTM D412) | %     | 229         | 164.9       | -28 %      |
| volume change (ASTM D471)       | %     |             | 4.1         |            |

### Change after aging in IRM 903: 70h/150°C

|                                 |       | Typ. values |             |            |
|---------------------------------|-------|-------------|-------------|------------|
|                                 |       | base        | after aging | difference |
| Hardness (ASTM D2240, Shore A)  | Shore | 70          | 51          | -19        |
| Tensile strength (ASTM D412)    | MPa   | 6.6         | 5.7         | -14 %      |
| Elongation at Break (ASTM D412) | %     | 229         | 187.8       | -18 %      |
| volume change (ASTM D471)       | %     |             | 34.1        |            |

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

|                                 |       | Typ. values |             |            |
|---------------------------------|-------|-------------|-------------|------------|
|                                 |       | base        | after aging | difference |
| Hardness (ASTM D2240, Shore A)  | Shore | 70          | 68          | -2         |
| Tensile strength (ASTM D412)    | MPa   | 6.6         | 6           | -9 %       |
| Elongation at Break (ASTM D412) | %     | 229         | 263.4       | 15 %       |
| volume change (ASTM D471)       | %     |             | 1.3         |            |

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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