FREUDENBERG
SEALING TECHNOLOGIES

Technical data sheet in accordance with AMS -P- 83461

# Material
# 75 NBR N456
black

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| Physical properties | nominal range | typical values | |
|---|---|---|---|
| **Density**<br>ASTM D297 | --- | 1.17 | g/cm³ |
| **Hardness**<br>ASTM D2240, Shore A | --- | 70 | Shore |
| **Hardness**<br>ASTM D2240, Shore M | --- | 77 | Shore |
| **Tensile strength**<br>ASTM D1414 | --- | 1796 | Psi |
| **Elongation at break**<br>ASTM D1414 | --- | 159 | % |
| **Modulus**<br>100 %, ASTM D1414 | --- | 780 | Psi |
| **Low temperature test**<br>ASTM D1329, TR10 | --- | -62 | °F |
| **Compression set**<br>ASTM D395, 70 h, 135 °C, 25 % | --- | 64 | % |
| **Compression set**<br>ASTM D395, 1440 h, 23 °C, 25 % | --- | 11 | % |

**Declarations of conformity**
**No data found!**

**Freudenberg**

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| **Change after aging in ARM 201: 70h/135°C** | | **nominal range** | **Typ. values** | | |
|---|---|---|---|---|---|
| | | Nominal | Base value | After aging | difference |
| Hardness (ASTM D2240, Shore A) | Shore | --- | 70 | 67 | -3 |
| Tensile strength (ASTM D1414) | % | --- | | | |
| Elongation at break (ASTM D1414) | % | --- | 159 | 111 | -30 % |
| volume change (ASTM D471) | % | --- | | 20 | |
| Compression set (ASTM D395, Slab B, 70 h, 135 °C, 25 %) | % | --- | | | |
| Compression set (ASTM D395, Slab B, 1440 h, 23 °C, 25 %) | % | --- | | | |
| Low temperature test (ASTM D1329, TR10) | °F | --- | | | |

| **Change after aging in MIL-H-83282: 70h/135°C** | | **nominal range** | **Typ. values** | | |
|---|---|---|---|---|---|
| | | Nominal | Base value | After aging | difference |
| Hardness (ASTM D2240, Shore A) | Shore | --- | 70 | 69 | -1 |
| Tensile strength (ASTM D1414) | % | --- | | | |
| Elongation at break (ASTM D1414) | % | --- | 159 | 117 | -26 % |
| volume change (ASTM D471) | % | --- | | 6 | |
| Compression set (ASTM D395, Slab B, 70 h, 135 °C, 25 %) | % | --- | | | |
| Low temperature test (ASTM D1329, TR10) | °F | --- | | | |

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**No ASTM D2000 properties available**

### AMS-P-83461

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.

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 provisons do not plan for something else.

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