



Technical data sheet in accordance with ASTM

Material NBR NB903411

black

cross linking: sulfur

| revision index 1 | revision date 8/13/2018 | | ра | ge 1/3 |
|--|----------------------------|---------------|-------------------|---------------|
| Physical properties | | nominal range | typical values | |
| Density ASTM D1817 | | 1.32 ±0.02 | 1.32 | g/cm³ |
| Hardness ASTM D2240, Shore A | | 90 ±5 | 88 | Shore |
| Tensile strength ASTM D412 | | | 17.6 | MPa |
| Elongation at Break ASTM D412 | | | 139 | % |
| Tear strength ASTM D624, C | | | 48 | KN/m |
| Compression set ASTM D395, B, 22 h, 100 °C, 2 | 25 % | | 6 | % |

Declarations of conformity

Temperature range

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the actual declaration of conformity (DoC) including the conditions and its validity period.

-35°C to 100°C

| | Country Part | Remark | Expires |
|--------------|--------------|---|----------------|
| RoHS conform | | including EU 2011/65 and EU2015/863 (ROHS III) | see DoC |

| Change after aging | | Typ. values | | |
|---------------------------------|-------|-------------|-------------|------------|
| in Air: 70h/100°C | | Base value | After aging | difference |
| Hardness (ASTM D2240, Shore A) | Shore | 88 | 91 | 3 |
| Tensile strength (ASTM D412) | MPa | 16.6 | 15.9 | -4 % |
| Elongation at Break (ASTM D412) | % | 119 | 101.1 | -15 % |

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| Change after aging | | | | Typ. values | |
| in Fuel A: 70h/23°C | | | Base value | After aging | difference |
| Hardness (ASTM D2240, Shore A) | | Shore | 88 | 88 | 0 |
| Tensile strength (ASTM D412) | | MPa | 16.6 | 14.3 | -14 % |
| Elongation at Break (ASTM D412) | | % | 119 | 113 | -5 % |
| volume change (ASTM D471) | | % | | 0 | |
| Change after aging | | | | Typ. values | |
| in Fuel B: 70h/23°C | | | Base value | After aging | difference |
| Hardness (ASTM D2240, Shore A) | | Shore | 88 | 79 | -9 |
| Tensile strength (ASTM D412) | | MPa | 16.6 | 12.4 | -25 % |
| Elongation at Break (ASTM D412) | | % | 119 | 94 | -21 % |
| volume change (ASTM D471) | | % | | 12 | |
| Change after aging | | | | Typ. values | |
| in IRM 901: 70h/100°C | | | Base value | After aging | difference |
| Hardness (ASTM D2240, Shore A) | | Shore | 88 | 93 | 5 |
| Tensile strength (ASTM D412) | | MPa | 16.6 | 15.4 | -7 % |
| Elongation at Break (ASTM D412) | | % | 119 | 96.4 | -19 % |
| volume change (ASTM D471) | | % | | -5 | |
| Change after aging | | | | Typ. values | |
| in IRM 903: 70h/100°C | | | Base value | After aging | difference |
| Hardness (ASTM D2240, Shore A) | | Shore | 88 | 86 | -2 |
| Tensile strength (ASTM D412) | | MPa | 16.6 | 16.4 | -1 % |
| Elongation at Break (ASTM D412) | | % | 119 | 104.7 | -12 % |
| volume change (ASTM D471) | | % | | 5 | |

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No ASTM D2000 properties available

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 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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