

Technical data sheet in accordance with ASTM

Material

NBR NB700602

black

cross linking: sulfur

revision index

4

revision date

11/9/2022

page

1 / 3

Physical properties

| | nominal range | typical values | |
|---|----------------|----------------|-------------------|
| Density ASTM D1817 | 1.24 ±0.03 | 1.24 | g/cm ³ |
| Hardness ASTM D2240, Shore A | 70 ±5 | 71.5 | Shore |
| Tensile strength ASTM D412 | --- | 16.3 | MPa |
| Elongation at break ASTM D412 | --- | 323 | % |
| Modulus 100 %, ASTM D412, 23 °C | --- | 4.5 | MPa |
| Compression set ASTM D395, 22 h, 100 °C | < 10 | --- | % |
| Low-temperature resistance ASTM D 2137, 3 min, Pass | > -26 | -30 | |
| Temperature range | -30°C to 100°C | | |

Declarations of conformity

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.

| Country | Part | Remark | Expires |
|-------------------|------|---|---------|
| Info ROHS and ELV | | EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III) | see DoC |

Change after aging in Air: 70h/100°C

| | | Typ. values | | |
|---------------------------------|-------|-------------|-------------|------------|
| | | Base value | After aging | difference |
| Hardness (ASTM D2240, Shore A) | Shore | 71.5 | 73.6 | 2 |
| Tensile strength (ASTM D412) | MPa | 16.3 | 16.1 | -1 % |
| Elongation at break (ASTM D412) | % | 323 | 274.6 | -15 % |
| volume change (ASTM D573) | % | | -0.5 | |

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page 2 / 3

Change after aging in Fuel A: 70h/23°C

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

| Typ. values | | | |
|-------------|-------------|------------|--|
| Base value | After aging | difference | |
| 71.5 | 67.8 | -4 | |
| 16.3 | 15.2 | -7 % | |
| 323 | 313.3 | -3 % | |
| | 1.5 | | |

Change after aging in Fuel B: 70h/23°C

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

| Typ. values | | | |
|-------------|-------------|------------|--|
| Base value | After aging | difference | |
| 71.5 | 51 | -21 | |
| 16.3 | 9.1 | -44 % | |
| 323 | 187.3 | -42 % | |
| | 30.9 | | |

Change after aging in IRM 901: 70h/100°C

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

| Typ. values | | | |
|-------------|-------------|------------|--|
| Base value | After aging | difference | |
| 71.5 | 76.9 | 5 | |
| 16.3 | 16.9 | 4 % | |
| 323 | 281 | -13 % | |
| | -6.9 | | |

Change after aging in IRM 903: 70h/100°C

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

| Typ. values | | | |
|-------------|-------------|------------|--|
| Base value | After aging | difference | |
| 71.5 | 66.2 | -5 | |
| 16.3 | 15.5 | -5 % | |
| 323 | 287.4 | -11 % | |
| | 6.1 | | |

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

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

| Typ. values | | | |
|-------------|-------------|------------|--|
| Base value | After aging | difference | |
| 71.5 | 66.7 | -5 | |
| 16.3 | 15.8 | -3 % | |
| 323 | 306.9 | -5 % | |
| | 7 | | |

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page 3 / 3

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 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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