

Technical data sheet in accordance with ASTM

Material

NBR NB707505

black

cross linking: sulfur

revision index

2

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7/3/2017

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Physical properties
Density

ASTM D297, 23 °C

nominal range

1.30 ±0.02

typical values

1.30

 g/cm³
Hardness

ASTM D2240, Shore A, 23 °C

72 ±5

72

Shore

Tensile strength

ASTM D412

14.8

MPa

Elongation at Break

ASTM D412

498

%

Low temperature test

ASTM D1329, TR10

-32

°C

Compression set

ISO 815, 22 h, 100 °C, 25 %

14

%

Temperature range

-30°C to 100°C

Declarations of conformity

| Country | Part |
|--------------|------|
| RoHS conform | |

| Remark |
|--|
| including EU 2011/65 and EU2015/863 (ROHS III) |

| Expires | unlimited |
|---------|-------------------------------------|
| | <input checked="" type="checkbox"/> |

Change after aging
in Air: 70h/100°C

Hardness (ASTM D2240, Shore A, 23 °C)

Shore

72

77

5

Tensile strength (ASTM D412)

MPa

14.8

14.5

-2 %

Elongation at Break (ASTM D412)

%

498

428.3

-14 %

Typ. values

| Base value | After aging | difference |
|------------|-------------|------------|
|------------|-------------|------------|

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

Hardness (ASTM D2240, Shore A, 23 °C)

Shore

72

78

6

Tensile strength (ASTM D412)

MPa

14.8

13.2

-11 %

Elongation at Break (ASTM D412)

%

498

358.6

-28 %

volume change (ASTM D471)

%

-6

Typ. values

| Base value | After aging | difference |
|------------|-------------|------------|
|------------|-------------|------------|

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

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

Shore
MPa
%
%

| Typ. values | | | |
|-------------|-------------|------------|--|
| Base value | After aging | difference | |
| 72 | 66 | -6 | |
| 14.8 | 12.9 | -13 % | |
| 498 | 418.3 | -16 % | |
| | 10 | | |

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

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

Shore
%

| Typ. values | | | |
|-------------|-------------|------------|--|
| Base value | After aging | difference | |
| 72 | 72 | 0 | |
| | 12 | | |

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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 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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