

Technical data sheet in accordance with ASTM

Material

75 NBR 106200

black

revision index

9

revision date

10/5/2018

page

1 / 4

Physical properties

| | nominal range | typical values | |
|---|---------------|----------------|-------|
| Hardness JIS K6253, Shore A | 75 ±5 | 76 | Shore |
| Tensile strength JIS K6251 | ≥ 10 | 12.8 | MPa |
| Elongation at break JIS K6251 | ≥ 125 | 437 | % |
| Compression set JIS K6262, 22 h, 100 °C | --- | 29 | % |

Temperature range -40°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 |
|-------------------|---------|------|---|---------|
| ADI Free | | | see certificate | see DoC |
| 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 (JIS K6257, Shore A) | Shore | 76 | 78 | 2 |
| Tensile strength (JIS K6257) | MPa | 12.8 | 13.5 | 5 % |
| Elongation at break (JIS K6257) | % | 437 | 403 | -8 % |

Change after aging

in ASTM-Oil No. 1: 70h/100°C

| | | Typ. values | | |
|---------------------------------|-------|-------------|-------------|------------|
| | | Base value | After aging | difference |
| Hardness (JIS K6258, Shore A) | Shore | 75 | 79 | 4 |
| Tensile strength (JIS K6258) | MPa | 12.8 | 14.8 | 16 % |
| Elongation at break (JIS K6258) | % | 437 | 342 | -22 % |
| volume change (JIS K6258) | % | | -4.3 | |

Freudenberg

Freudenberg FST GmbH
Technology&Innovation
Material Compliance

Telefon: -

Fax: -

Email: MaterialCompliance@fst.com



Technical data sheet in accordance with ASTM

Material

75 NBR 106200

black

revision index

9

revision date

10/5/2018

page 2 / 4

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

Typ. values

Hardness (JIS K6258, Shore A)
Tensile strength (JIS K6258)
Elongation at break (JIS K6258)
volume change (JIS K6258)

Shore
MPa
%
%

| Base value | After aging | difference |
|------------|-------------|------------|
| 75 | 70 | -5 |
| 12.8 | 12.6 | -2 % |
| 437 | 311 | -29 % |
| | 9.1 | |

Freudenberg

Freudenberg FST GmbH
Technology&Innovation
Material Compliance

Telefon: -
Fax: -
Email: MaterialCompliance@fst.com



Technical data sheet in accordance with ASTM

Material

75 NBR 106200

black

revision index

9

revision date

10/5/2018

page

3 / 4

Tested after ASTM D 2000: M 2 CH 710 A25 EO15 EO35 Z1 Z2

| | | nominal range | typical values |
|--|-------|------------------|-------------------|
| Hardness | Shore | 70 ±5 | 76 |
| Tensile strength | MPa | min. 10 | 14.2 |
| Elongation at break | % | min. 250 | 394 |
| A25 Change after aging in Air 70h/125°C | | | |
| Hardness | Shore | 0 to 15 | 9 |
| Tensile strength | % | -25 | 8 |
| Elongation at break | % | -50 | -31 |
| EO15 Change after aging in IRM 901 70h/125°C | | | |
| Hardness | Shore | 0 to 10 | 6 |
| Tensile strength | % | -20 | 14 |
| Elongation at break | % | -35 | -27 |
| Volume | % | -15 to 5 | -4.9 |
| EO35 Change after aging in IRM 903 70h/125°C | | | |
| Hardness | Shore | ±10 | -4 |
| Tensile strength | % | -15 | 4 |
| Elongation at break | % | -30 | -26 |
| Volume | % | 0 to 25 | 10.2 |
| Z1 Hardness DIN ISO 7619-1, Shore A, 23 °C | | | |
| | Shore | 75 ±5 | 76 |
| Z2 Compression set ASTM D 395, Slab B, 22 h, 100 °C, 25 % | | | |
| | % | --- | 28 |

Preferred area of applications: Radial Shaft Seals.

Very good resistance in motor oil based on mineral oil

Attention!

In synthetic oils (polyalkylene-glycols / polyalphaolefins) please consider that the max. working temperature mustn't exceed 80

Freudenberg

Freudenberg FST GmbH
Technology&Innovation
Material Compliance

Telefon: -

Fax: -

Email: MaterialCompliance@fst.com



Technical data sheet in accordance with ASTM

Material

75 NBR 106200

black

revision index

9

revision date

10/5/2018

page 4 / 4

°C

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 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.

Freudenberg

Freudenberg FST GmbH
Technology&Innovation
Material Compliance

Telefon: -
Fax: -
Email: MaterialCompliance@fst.com

