

Technical data sheet in accordance with ASTM

Material

NBR NB902803

black

cross linking: sulfur

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2

revision date

3/26/2017

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Physical properties

Density

ASTM D 1817

nominal range

1.28 ±0.02

typical values

1.28

 g/cm³
Hardness

ASTM D2240, Shore A, 23 °C

90 ±5

90

Shore

Tensile strength

ASTM D412

20.2

MPa

Elongation at Break

ASTM D412

205

%

Low temperature test

ASTM D1329, TR10

-21

°C

Compression set

ASTM D395, B, 22 h, 100 °C, 25 %

9

%

Temperature range

-30°C to 100°C

Declarations of conformity

Country Part
Remark
Expires
unlimited

RoHS

 Restricted substances in electrical
and electronic equipment


Change after aging

in Air: 70h/100°C
Typ. values

Base value After aging difference

Hardness (ASTM D2240, Shore A, 23 °C)

Shore

90

91

1

Tensile strength (ASTM D412)

MPa

20.2

19.8

-2 %

Elongation at Break (ASTM D412)

%

205

169.1

-18 %

Change after aging

in ASTM-Oil No. 1: 70h/100°C
Typ. values

Base value After aging difference

Hardness (ASTM D2240, Shore A, 23 °C)

Shore

90

91

1

Tensile strength (ASTM D412)

MPa

20.2

19.7

-2 %

Elongation at Break (ASTM D412)

%

205

185.7

-9 %

volume change (ASTM D471)

%

-2.3

Freudenberg

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Global Material Technology

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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
90	85	-5
20.2	19.8	-2 %
205	182.4	-11 %
	8.9	

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
90	86	-4
	8.9	

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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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