

Technical data sheet in accordance with ASTM

Material

NBR NB603412

black

cross linking: sulfur

revision index

2

revision date

12/10/2018

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Physical properties

Density

ASTM D1817

nominal range
1.24 ±0.02

typical values
1.24

g/cm³

Hardness

ASTM D2240, Shore A

60 ±5

62

Shore

Tensile strength

ASTM D412, C

13.5

MPa

Elongation at Break

ASTM D412, C

449

%

Tear strength

ASTM D624, C

48

KN/m

Ozone Resistance

ASTM D1171, 40 °C, 72 h, 50 pphm, 20% (no crack)

0

Rating

Low temperature test

ASTM D1329, TR10

-36

°C

Compression set

ASTM D395, B, 22 h, 100 °C, 25 %

7

%

Temperature range

-40°C to 100°C

Declarations of conformity

	Country	Part	Remark	Expires	unlimited
RoHS conform			including EU 2011/65 and EU2015/863 (ROHS III)		<input checked="" type="checkbox"/>

Change after aging

in Air: 70h/100°C

Hardness (ASTM D2240, Shore A)

Shore

62

70

8

Tensile strength (ASTM D412)

MPa

13.5

14.6

8 %

Elongation at Break (ASTM D412)

%

449

345

-23 %

volume change (ASTM D471)

%

-6

Typ. values

Base value After aging difference

Freudenberg

Freudenberg Industrial Services GmbH

Global Material Technology

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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)

	Base value	After aging	difference
Shore	62	62	0
MPa	13.5	13	-4 %
%	449	422	-6 %
%		-1	

Typ. values

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)

	Base value	After aging	difference
Shore	62	53	-9
MPa	13.5	7.5	-44 %
%	449	260	-42 %
%		17	

Typ. values

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)

	Base value	After aging	difference
Shore	62	66	4
MPa	13.5	15.3	13 %
%	449	354	-21 %
%		-9	

Typ. values

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)

	Base value	After aging	difference
Shore	62	62	0
MPa	13.5	13.8	2 %
%	449	368	-18 %
%		1	

Typ. values

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)

	Base value	After aging	difference
Shore	62	60	-2
MPa	13.5	12.3	-9 %
%	449	354	-21 %
%		3	

Typ. values

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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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