



Technical data sheet in accordance with ASTM

Material NBR NB70C401

black

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2/7/2018	3	9/29/2017		
Physical properties				
Density ASTM D297		required 1.25 ±0.02	actual 1.23	g/cm ³
Hardness ASTM D2240, Shore A		70 ±5	73	Shore
Tensile strength ASTM D412		---	19.43	MPa
Elongation at Break ASTM D412		---	330	%
Tear strength ASTM D624, B		---	62	KN/m
Low temperature test ASTM D1329, TR10		---	-24	°C
Compression set ASTM D395, 22 h, 100 °C		---	10	%
Temperature range		-40°C to 100°C		

Certificates	Country	Part	Remark	Expires	unlimited
RoHS			2015/863/EU and 2011/65/EU		<input checked="" type="checkbox"/>

Change after aging in Air: 70h/100°C

		Typ. values		
		base	after aging	difference
Hardness (ASTM D2240, Shore A)	Shore	73	74	1
Tensile strength (ASTM D412)	MPa	19.4	20.8	7 %
Elongation at Break (ASTM D412)	%	330	274	-17 %
volume change (ASTM D471)	%		1	

Change after aging in ASTM-Oil No. 1: 70h/100°C

		Typ. values		
		base	after aging	difference
Hardness (ASTM D2240, Shore A)	Shore	73	74	1
Tensile strength (ASTM D412)	MPa	19.4	20.6	6 %
Elongation at Break (ASTM D412)	%	330	297	-10 %
volume change (ASTM D471)	%		-4	

Freudenberg

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Change after aging in ASTM-Oil No. 3: 70h/100°C

Typ. values

base	after aging	difference
73	64	-9
19.4	17.7	-9 %
330	326.6	-1 %
	8	

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

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

Typ. values

base	after aging	difference
73	71	-2
19.4	19.1	-2 %
330	283.7	-14 %
	-1	

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

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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Declaration of Compliance according to 2015/863/EU (RoHS)

print date

2/7/2018

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We declare that the material

NBR NB70C401

based on the information available to us from our raw material suppliers, is compliant with the directive 2015/863/EC to amend Annex II of Directive 2011/65/EU and do not exceed the maximum limit the following substances:

- Hexavalent chromium and its compounds
- Cadmium and its compounds
- Mercury and its compounds
- Lead and its compounds
- Polybrominated diphenylethers (PBDE)
- Polybrominated biphenyls (PBB)
- Bis(2-ethylhexyl) phthalate (DEHP)
- n-butyl benzyl phthalate (BBP)
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)

None of the reglemented hazardous substances is intentionally added to the raw materials used or in the manufacturing process of rubber.

Any trace impurities of these substances are below the specified threshold levels. Analytical testing of these components is not routinely performed.

All information provided in this Certificate of Compliance is accurate, to the best of our knowledge, as of the date this certification was issued.

Date of issue:

2/23/2017

The declaration of compliance is 5 years valid from the date of issue.

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