

Technical data sheet in accordance with ASTM

Material

NBR NB70C401

black

cross linking: sulfur

revision index	revision date	page	1 / 3
3	9/29/2017		

Physical properties	nominal range	typical values	
Density ASTM D297	1.25 ±0.02	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		

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

		Typ. values		
		Base value	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	

Freudenberg

Freudenberg Industrial Services GmbH
 Global Material Technology
 Nadja Güldner
 Telefon: +49 40 66989 279
 Fax: +49 40 66989 9279
 Email: nadja.gueldner@fst.com

Technical data sheet in accordance with ASTM

Material

NBR NB70C401

black

cross linking: sulfur

revision index

3

revision date

9/29/2017

page 2 / 3

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

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

Typ. values		
Base value	After aging	difference
73	74	1
19.4	20.6	6 %
330	297	-10 %
	-4	

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

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

Typ. values		
Base value	After aging	difference
73	64	-9
19.4	17.7	-9 %
330	326.6	-1 %
	8	

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

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

Typ. values		
Base value	After aging	difference
73	71	-2
19.4	19.1	-2 %
330	283.7	-14 %
	-1	

Freudenberg

Freudenberg Industrial Services GmbH
 Global Material Technology
 Nadja Güldner
 Telefon: +49 40 66989 279
 Fax: +49 40 66989 9279
 Email: nadja.gueldner@fst.com

Technical data sheet in accordance with ASTM

Material

NBR NB70C401

black

cross linking: sulfur

revision index

3

revision date

9/29/2017

page

3 / 3

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.

Freudenberg

Freudenberg Industrial Services GmbH

Global Material Technology

Nadja Güldner

Telefon: +49 40 66989 279

Fax: +49 40 66989 9279

Email: nadja.gueldner@fst.com