

Technical data sheet in accordance with ASTM

Material

NBR NB70C401

black

cross linking: sulfur

revision index

4

revision date

9/19/2023

page

1 / 3

Physical properties

	nominal range	typical values	
Density ASTM D297	1.23 ±0.02	1.23	g/cm ³
Hardness ASTM D2240, Shore A	70 ±5	72	Shore
Tensile strength ASTM D412	> 14	16.3	MPa
Elongation at break ASTM D412	> 250	421	%
Compression set ASTM D395 B, 22 h, 100 °C	< 25	15	%
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
PFOA / PFOS free			see certificate	see DoC
RoHS conform			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 (ASTM D471, Shore A)	Shore	72	74	2
Tensile strength (ASTM D471)	MPa	16.3	16.6	2 %
Elongation at break (ASTM D471)	%	421	370.4	-12 %

Freudenberg

Freudenberg Industrial Services GmbH
 Global Material Technology
 Nadja Güldner
 Telefon: -
 Fax: -
 Email: FIS.Compound.CRC@fst.com

Technical data sheet in accordance with ASTM

Material

NBR NB70C401

black

cross linking: sulfur

revision index

4

revision date

9/19/2023

page 2 / 3

Change after aging in IRM 901: 70h/100°C

Hardness (ASTM D471, Shore A)
Tensile strength (ASTM D471)
Elongation at break (ASTM D471)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
72	75	3	
16.3	17.1	5 %	
421	378.9	-10 %	
		-4	

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

Hardness (ASTM D471, Shore A)
Tensile strength (ASTM D471)
Elongation at break (ASTM D471)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
72	68	-4	
16.3	15.2	-7 %	
421	378.9	-10 %	
		8	

Freudenberg

Freudenberg Industrial Services GmbH
 Global Material Technology
 Nadja Güldner
 Telefon: -
 Fax: -
 Email: FIS.Compound.CRC@fst.com

Technical data sheet in accordance with ASTM

Material

NBR NB70C401

black

cross linking: sulfur

revision index

4

revision date

9/19/2023

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: -
Fax: -
Email: FIS.Compound.CRC@fst.com