

Technical data sheet in accordance with ASTM

# Material

## NBR NB707505

black

cross linking: sulfur

**revision index**

2

**revision date**

7/3/2017

**page**

1 / 3

### Physical properties

	nominal range	typical values	
<b>Density</b> ASTM D297, 23 °C	1.30 ±0.02	1.30	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D2240, Shore A, 23 °C	72 ±5	72	Shore
<b>Tensile strength</b> ASTM D412	---	14.8	MPa
<b>Elongation at Break</b> ASTM D412	---	498	%
<b>Low temperature test</b> ASTM D1329, TR10	---	-32	°C
<b>Compression set</b> ISO 815, 22 h, 100 °C, 25 %	---	14	%
<b>Temperature range</b>	-30°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, 23 °C)	Shore	72	77	5
Tensile strength (ASTM D412)	MPa	14.8	14.5	-2 %
Elongation at Break (ASTM D412)	%	498	428.3	-14 %

### Change after aging

#### in IRM 901: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A, 23 °C)	Shore	72	78	6
Tensile strength (ASTM D412)	MPa	14.8	13.2	-11 %
Elongation at Break (ASTM D412)	%	498	358.6	-28 %
volume change (ASTM D471)	%			-6

### Freudenberg

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cross linking: sulfur

**revision index**

2

**revision date**

7/3/2017

**page** 2 / 3

#### 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	
72	66	-6	
14.8	12.9	-13 %	
498	418.3	-16 %	
	10		

#### 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	
72	72	0	
	12		

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**revision index**

2

**revision date**

7/3/2017

**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.

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