

Technical data sheet in accordance with ASTM

# Material

## NBR NB701602

black

cross linking: sulfur

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### Physical properties

	nominal range	typical values	
<b>Density</b> ASTM D792	---	1.25	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D2240, Shore A	---	70	Shore
<b>Hardness</b> ISO 48	---	71	IRHD
<b>Tensile strength</b> ASTM D412	---	14.3	MPa
<b>Tensile strength</b> ISO 37	---	14	MPa
<b>Elongation at break</b> ASTM D412	---	390	%
<b>Elongation at break</b> ISO 37	---	350	%
<b>Tear strength</b> ASTM D624, B	---	49	KN/m
<b>Compression set</b> ASTM D395, Slab B, 22 h, 100 °C	---	10	%
<b>Compression set</b> ASTM D395, Slab B, 70 h, 100 °C	---	14	%
<b>Compression set</b> ASTM D395, Slab B, 70 h, 125 °C	---	29	%
<b>Low temperature test</b> ASTM D1329, TR10	---	-28	°C
<b>Low temperature test</b> ASTM D1329, TR30	---	-23	°C
<b>Low temperature test</b> ASTM D1329, TR50	---	-20	°C
<b>Low temperature test</b> ASTM D1329, TR70	---	-12	°C
<b>Low-temperature resistance</b>	---	-30	

### Freudenberg

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ASTM D 2137, brittleness point

**Temperature range**

-30°C to 120°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**

Info ROHS and ELV

**Remark**

EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)

**Expires**

see DoC

### Change after aging in Air: 70h/100°C

Hardness (ASTM D2240, Shore A)  
Tensile strength (ASTM D412)  
Elongation at break (ASTM D412)

Shore  
MPa  
%

Typ. values		
Base value	After aging	difference
70	74	4
14.3	15.4	8 %
390	312	-20 %

### Change after aging in Air: 168h/100°C

Hardness (ASTM D2240, Shore A)  
Tensile strength (ASTM D412)  
Elongation at break (ASTM D412)

Shore  
MPa  
%

Typ. values		
Base value	After aging	difference
70	75	5
14.3	15.9	11 %
390	296.4	-24 %

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

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

Shore  
MPa  
%  
%

Typ. values		
Base value	After aging	difference
70	76	6
14.3	15.4	8 %
390	315.9	-19 %
	-8	

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#### 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)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
70	67	-3	
14.3	15.4	8 %	
390	351	-10 %	
	5.2		

#### 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)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
70	70	0	
14.3	13.6	-5 %	
390	343.2	-12 %	
	3.9		

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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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