

Technical data sheet in accordance with ASTM

# Material

## NBR NB707101

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
<b>Density</b> ASTM D 1817	1.23 ±0.02	1.23	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D2240, Shore A	70 ±5	67	Shore
<b>Tensile strength</b> ASTM D412	---	17.5	MPa
<b>Elongation at Break</b> ASTM D412	---	325	%
<b>Low temperature test</b> ASTM D1329, TR10	---	-27.1	°C
<b>Low-temperature resistance</b> ASTM D 2137, 3 min, Method C, Nonbrittle; pass	---	-35	
<b>Compression set</b> ASTM D395, B, 22 h, 100 °C, 25 %	---	8	%

### Declarations of conformity

	Country	Part	Remark	Expires	unlimited
ADI Free			see certificate		<input checked="" type="checkbox"/>
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	67	71	4
Tensile strength (ASTM D412)	MPa	17.5	17.1	-2 %
Elongation at Break (ASTM D412)	%	325	276	-15 %
volume change (ASTM D471)	%		-0.4	

### Freudenberg

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#### 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	
67	76	9	
17.5	17.9	2 %	
325	279	-14 %	
	-9.5		

#### Change after aging in ASTM-Oil No. 3: 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	
67	70	3	
17.5	17.7	1 %	
325	286	-12 %	
	1.6		

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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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