

Technical data sheet in accordance with ASTM

# Material

## NBR NB805501

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, 23 °C	80 ±5	80	Shore
<b>Tensile strength</b> ASTM D412	> 14	20	MPa
<b>Elongation at Break</b> ASTM D412	> 125	160	%
<b>Compression set</b> ASTM D395, 22 h, 100 °C, 25 %	< 25	7	%

### 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	80	82	2
Tensile strength (ASTM D412)	MPa	20	17.2	-14 %
Elongation at Break (ASTM D412)	%	160	120	-25 %

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	80	82	2
Tensile strength (ASTM D412)	MPa	20	17.7	-12 %
Elongation at Break (ASTM D412)	%	160	121	-24 %
volume change (ASTM D471)	%	100	100.1	0

### Freudenberg

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

#### Typ. values

		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	80	78	-2
Tensile strength (ASTM D412)	MPa	20	15	-25 %
Elongation at Break (ASTM D412)	%	160	142	-11 %
volume change (ASTM D471)	%	100	99.5	-1

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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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