

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

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
Info ROHS and ELV			EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC
PFOA / PFOS free			see certificate	see DoC

### 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

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

Shore  
MPa  
%  
%

Base value	After aging	difference
80	78	-2
20	15	-25 %
160	142	-11 %
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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