

Technical data sheet in accordance with ASTM

# Material

## NBR NF855501

black

cross linking: sulfur

<b>revision index</b>	<b>revision date</b>	<b>page</b>	1 / 3
1	4/11/2024		

Physical properties	nominal range	typical values	
<b>Density</b> ASTM D 297	1.23 ±0.02	1.23	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D 2240, Shore A	85 ±5	84	Shore
<b>Tensile strength</b> ASTM D 412	> 10	15	MPa
<b>Elongation at break</b> ASTM D 412	> 100	162	%
<b>Compression set</b> ASTM D 395, Slab B, 22 h, 100 °C	< 25	14	%

### 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

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D573, Shore A)	Shore	84	86	2
Tensile strength (ASTM D573)	MPa	15.1	12.5	-17 %
Elongation at break (ASTM D573)	%	161.6	132.3	-18 %

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A)	Shore	74	72	-2
Tensile strength (ASTM D471)	MPa	15.1	12.5	-17 %
Elongation at break (ASTM D471)	%	161.6	115	-29 %
volume change (ASTM D471)	%		-1.9	

### Freudenberg

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**revision index**

1

**revision date**

4/11/2024

**page** 2 / 3

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

#### Typ. values

		Base value	After aging	difference
Hardness (ASTM D471, Shore A)	Shore	74	72	-2
Tensile strength (ASTM D471)	MPa	15.1	11.6	-23 %
Elongation at break (ASTM D471)	%	161.6	137.2	-15 %
volume change (ASTM D471)	%		1.5	

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cross linking: sulfur

**revision index**

1

**revision date**

4/11/2024

**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.

### **Freudenberg**

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