

Technical data sheet in accordance with ASTM

# Material

## NBR NB704816

black

cross linking: sulfur

revision index	revision date	page	1 / 3
2	3/20/2017		
Physical properties	nominal range	typical values	
<b>Density</b> ISO 2781 A, 23 °C	1.23 ±0.02	1.23	g/cm <sup>3</sup>
<b>Hardness</b> Shore A, 23 °C	70 ±5	70	Shore
<b>Tensile strength</b> ISO 37 Typ 1	---	16	MPa
<b>Elongation at break</b> ISO 37 Typ 1	---	380	%
<b>Tear strength</b> ISO 34-1, C, 23 °C	---	60	KN/m
<b>Compression set</b> ISO 815, Slab A, 22 h, 100 °C, 25 %	---	8	%
<b>Compression set</b> ISO 815, Slab A, 70 h, 125 °C, 25 %	---	14	%
<b>Low-temperature resistance</b> ISO 812, Brittleness point	---	-26	
<b>Low temperature test</b> ISO 2921, TR10	---	-24	°C
<b>Ozone Resistance</b> 40 °C, 70 h, 50 pphm, 2% Dehnung / elongation	---	0	Rating
<b>Temperature range</b>	static: -35°C to 100°C dynamic: -25°C to 100°C	short term: 110°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	Remark	Expires
Info ROHS and ELV		EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

### Freudenberg

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**revision index**

2

**revision date**

3/20/2017

**page** 2 / 3

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

Hardness (Shore A, 23 °C)  
Tensile strength (ISO 37 Typ 1)  
Elongation at break (ISO 37 Typ 1)

Shore  
MPa  
%

Typ. values			
Base value	After aging	difference	
70	75	5	
16	18.1	13 %	
380	304	-20 %	

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

Hardness (Shore A, 23 °C)  
Tensile strength (ISO 37 Typ 1)  
Elongation at break (ISO 37 Typ 1)  
volume change (ISO 188 B)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
70	76	6	
16	18.9	18 %	
380	304	-20 %	
	-4.5		

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

Hardness (Shore A, 23 °C)  
Tensile strength (ISO 37 Typ 1)  
Elongation at break (ISO 37 Typ 1)  
volume change (ISO 188 B)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
70	63	-7	
16	16.3	2 %	
380	323	-15 %	
	11		

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**revision index**

2

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**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.

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