

# Material

## NBR NB902708

black

cross linking: sulfur

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### Physical properties

	nominal range	typical values	
<b>Density</b> ASTM D 1817	1.36 ±0.02	1.36	g/cm <sup>3</sup>
<b>Hardness</b> DIN ISO 7619-1, Shore A	88 ±5	87	Shore
<b>Tensile strength</b> DIN 53504	---	13	MPa
<b>Elongation at break</b> DIN 53504	---	191	%
<b>Low temperature test</b> ASTM D 1329, TR10	---	-25	°C
<b>Glass Transition Temperature</b>	---	-27	°C
<b>Compression set</b> DIN ISO 815-1 A, 72 h, 100 °C, 25 %	---	19	%
<b>Compression set</b> DIN 53517, 22 h, 100 °C, 25 %	---	8	%
<b>Compression set</b> DIN 53517, 72 h, 23 °C, 25 %	---	12	%
<b>Compression set</b> DIN ISO 815-1 A, 24 h, 100 °C, 25 %	---	12	%
<b>Ozone Resistance</b> DIN 53509, 40 °C, 72 h, 50 pphm, pass; no cracks	---	0	Rating
<b>Glass Transition Temperature</b>	---	---	°C
<b>Temperature range</b>	-30°C to 100°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

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### Change after aging in Air: 168h/70°C

Hardness (ISO 7619, Shore A)  
Tensile strength (DIN 53504)  
Elongation at break (DIN 53504)  
volume change (DIN 53508)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
87	89	2	
13	12.3	-5 %	
191	162	-15 %	
	-1.5		

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

Hardness (ISO 7619, Shore A)  
Tensile strength (DIN 53504)  
Elongation at break (DIN 53504)  
volume change (DIN 53508)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
87	88	1	
13	13.2	2 %	
191	151	-21 %	
	-1.5		

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

Hardness (ISO 7619, Shore A)  
Tensile strength (DIN 53504)  
Elongation at break (DIN 53504)  
volume change (DIN 53521)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
87	88	1	
13	13.5	4 %	
191	152	-20 %	
	-6		

### Change after aging in Fuel B: 168h/23°C

Hardness (ISO 7619, Shore A)  
volume change (DIN 53521)

Shore  
%

Typ. values			
Base value	After aging	difference	
87	66	-21	
	22		

### Change after aging in IRM 903: 168h/70°C

Hardness (ISO 7619, Shore A)  
volume change (DIN 53521)

Shore  
%

Typ. values			
Base value	After aging	difference	
87	80	-7	
	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.

### **Freudenberg**

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