

Technical data sheet in accordance with ASTM

# Material

## NBR NB902804

black

cross linking: sulfur

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### Physical properties

	nominal range	typical values	
<b>Density</b> ASTM D 1817	1.31 ±0.03	1.31	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D2240, Shore A	90 ±5	86	Shore
<b>Tensile strength</b> ASTM D412	---	18	MPa
<b>Elongation at break</b> ASTM D412	---	206	%
<b>Modulus</b> 100 %, ASTM D412	---	12.8	MPa
<b>Low temperature test</b> ASTM D1329, TR10	---	-11.3	°C
<b>Glass Transition Temperature</b>	---	-12	°C
<b>Compression set</b> ASTM D395, Slab B, 22 h, 100 °C, 25 %	---	24	%
<b>Ozone Resistance</b> ASTM D 1149, 40 °C, 168 h, 50 pphm, 20% Elongation	---	0	Rating

### 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 D2240, Shore A)	Shore	86	88	2
Tensile strength (ASTM D412)	MPa	18	20.5	14 %
Elongation at break (ASTM D412)	%	206	178	-14 %

### Freudenberg

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### Change after aging in IRM 901: 70h/100°C

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

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
86	90	4	
18	19.1	6 %	
206	186	-10 %	
	-6.3		

### Change after aging in IRM 903: 70h/100°C

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

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
86	85	-1	
18	19.3	7 %	
206	204	-1 %	
	2.5		

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

Hardness (ASTM D2240, Shore A)  
volume change (ASTM D471)

Shore  
%

Typ. values			
Base value	After aging	difference	
86	81	-5	
	10.9		

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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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