

Technical data sheet in accordance with ASTM

# Material

## NBR NB803410

black

cross linking: sulfur

**revision index**

3

**revision date**

8/16/2018

**page**

1 / 3

### Physical properties

	nominal range	typical values	
<b>Density</b> ASTM D 1817	1.31 ±0.02	1.31	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D 2240, Shore A	80 ±5	79	Shore
<b>Tensile strength</b> ASTM D 412	---	15.8	MPa
<b>Elongation at break</b> ASTM D 412	---	302	%
<b>Compression set</b> ASTM D 395, Slab B, 22 h, 100 °C	---	9	%

### 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	79	85	6
Tensile strength (ASTM D412)	MPa	15.8	17.4	10 %
Elongation at break (ASTM D412)	%	302	259	-14 %
volume change (ASTM D573)	%		-3	

### Change after aging in ASTM fuel A: 70h/23°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	79	76	-3
Tensile strength (ASTM D412)	MPa	15.8	15	-5 %
Elongation at break (ASTM D412)	%	302	302	0 %
volume change (ASTM D471)	%		2	

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**revision index**

3

**revision date**

8/16/2018

**page** 2 / 3

### Change after aging in ASTM fuel B: 70h/23°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	
79	62	-17	
15.8	12.2	-23 %	
302	214	-29 %	
	24		

### 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	
79	79	0	
15.8	18.3	16 %	
302	268	-11 %	
	-2		

### 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	
79	73	-6	
15.8	16.8	6 %	
302	278	-8 %	
	8		

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**revision index**

3

**revision date**

8/16/2018

**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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