

Technical data sheet in accordance with ASTM

# Material

## NBR NB703411

black

cross linking: sulfur

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### Physical properties

	nominal range	typical values	
<b>Density</b> ASTM D297	1.24 ±0.02	1.24	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D2240, Shore A	70 ±5	70	Shore
<b>Tensile strength</b> ASTM D412	---	15.7	MPa
<b>Elongation at break</b> ASTM D412	---	374	%
<b>Compression set</b> ASTM D395, Slab B, 22 h, 100 °C	---	6	%
<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
ADI Free Info ROHS and ELV			see certificate EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC see DoC

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	70	75	5
Tensile strength (ASTM D412)	MPa	15.7	17.3	10 %
Elongation at break (ASTM D412)	%	374	310.4	-17 %

### Freudenberg

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

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

	Shore	MPa	%	%
Base value	70	15.7	374	
After aging	69	15.1	355.3	0
difference	-1	-4 %	-5 %	

#### Typ. values

Base value After aging difference

### Change after aging in 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	%	%
Base value	70	15.7	374	
After aging	58	9.4	220.6	27
difference	-12	-40 %	-41 %	

#### Typ. values

Base value After aging difference

### 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	%	%
Base value	70	15.7	374	
After aging	73	16.2	295.4	-4
difference	3	3 %	-21 %	

#### Typ. values

Base value After aging difference

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

Hardness (ASTM D2240, Shore A, 23 °C)  
Tensile strength (ASTM D412)  
Elongation at break (ASTM D412)  
volume change (ASTM D471)

	Shore	MPa	%	%
Base value	70	15.7	374	
After aging	67	16.3	347.8	7
difference	-3	4 %	-7 %	

#### Typ. values

Base value After aging difference

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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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