

# Material

## NBR NB800901

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### Physical properties

	nominal range	typical values	
<b>Density</b>	---	1.27	g/cm <sup>3</sup>
<b>Hardness</b> BS ISO 48	80 ±5	80	IRHD
<b>Tensile strength</b> BS ISO 37	---	15.8	MPa
<b>Elongation at break</b> BS ISO 37	---	243	%
<b>Compression set</b> BS ISO 815, 22 h, 100 °C	---	17.5	%

### 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 (BS ISO 48)	IRHD	80	78.6	-1
Tensile strength (BS ISO 37)	MPa	15.8	17.8	12 %
Elongation at break (BS ISO 37)	%	243	184	-24 %

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

		Typ. values		
		Base value	After aging	difference
Hardness (BS ISO 48)	IRHD	80	82.3	2
Tensile strength (BS ISO 37)	MPa	15.8	18.7	18 %
Elongation at break (BS ISO 37)	%	243	199.5	-18 %
volume change (BS ISO 815 / 1817)	%		-7.5	%

### Freudenberg

Freudenberg Industrial Services GmbH  
 Global Material Technology  
 Nadja Güldner  
 Telefon: -  
 Fax: -  
 Email: FIS.Compound.CRC@fst.com

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

#### Typ. values

		Base value	After aging	difference
Hardness (BS ISO 48)	IRHD	80	77.4	-3
Tensile strength (BS ISO 37)	MPa	15.8	17.3	10 %
Elongation at break (BS ISO 37)	%	243	218	-10 %
volume change (BS ISO 815 / 1817)	%		5	%

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Freudenberg Industrial Services GmbH  
Global Material Technology  
Nadja Güldner  
Telefon: -  
Fax: -  
Email: FIS.Compound.CRC@fst.com

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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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Freudenberg Industrial Services GmbH  
Global Material Technology  
Nadja Güldner  
Telefon: -  
Fax: -  
Email: [FIS.Compound.CRC@fst.com](mailto:FIS.Compound.CRC@fst.com)