

## Material 80 NBR 4005

**Version**  
03**Released on**  
29.03.2017

### General Data

Colour: black  
Type of cross-linking: Sulfur

### Physical Properties

	Nominal Range	Typical Value	
<b>Density</b> DIN EN ISO 1183-1, 23 °C	1.24 ±0.02	1.24	g/cm <sup>3</sup>
<b>Hardness</b> DIN ISO 7619-1, Shore A, 23 °C	80 ±5	80	Shore
<b>Modulus</b> 100 %, DIN 53504, S2, 23 °C		7	MPa
<b>Tensile strength</b> DIN 53504, S2, 23 °C		17.8	MPa
<b>Elongation at break</b> DIN 53504, S2, 23 °C		231	%
<b>Compression set</b> DIN ISO 815, I, 22 h, 100 °C, 25 %		11	%
<b>Compression set</b> DIN ISO 815, I, 70 h, 120 °C, 25 %		31	%

### Temperature Range

static: -25 to 110 °C

This data sheet supersedes all previous versions. The content is subject to change without prior notice. The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. 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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**Tested after ASTM D 2000: M 6 BG 8 10 A14 B14 B34 EO14 EO34 F17**

ASTM Property		Nominal Range	Typical Value
Tensile strength	MPa	min. 10	14
Hardness	Shore	80 ±5	80
Elongation at break	%	min. 125	150
<b>A14 Air 70.00h/100.00°C</b>			
Elongation at break	%	-40	-7
Tensile strength	MPa	-20	20
Hardness	Shore	±15	4
<b>B14 22.00h/100.00°C</b>			
Compression set	%	25	12
<b>B34 22.00h/100.00°C</b>			
Compression set	%	25	16
<b>EO14 IRM 901 70.00h/100.00°C</b>			
Hardness	Shore	-5 to 15	4
Elongation at break	%	-45	-21
Volume change	%	-10 to 5	-3.7
Tensile strength	MPa	-25	14
<b>EO34 IRM 903 70.00h/100.00°C</b>			
Tensile strength	MPa	-45	-12
Hardness	Shore	0 to -20	-9
Elongation at break	%	-45	-20
Volume change	%	0 to 35	15
<b>F17 3.00min/-40.00°C</b>			
Low temperature resistance	°C	pass	1

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