

# Material

## 70 NBR N708R

**Version**  
01

**Released on**  
03.11.2021

### General Data

Colour: black  
 Type of cross-linking: Sulfur

### Physical Properties

	Nominal Range	Typical Value	
<b>Density</b> ASTM D297, 23 °C	1.23 ±0.02	1.232	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D2240, Shore A, 23 °C	70 ±5	71	Shore
<b>Tensile strength</b> ASTM D412, C, 23 °C	>14	17.2	MPa
<b>Elongation at break</b> ASTM D412, C, 23 °C	>250	392	%
<b>Compression set</b> ASTM D395, B, 22 h, 100 °C	<25	7	%

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 2 BG 7 14 A14 B14 EF11 EF21 EO14 EO34 Z1 Z2**

ASTM Property		Nominal Range	Typical Value
Elongation at break	%	min. 250	392
Hardness	Shore	70 ±5	71
Tensile strength	MPa	min. 14	17.22
<b>A14 Air 70.00h/100.00°C</b>			
Elongation at break	%		-17
Hardness	Shore		5
Tensile strength	MPa		11
<b>B14 22.00h/100.00°C</b>			
Compression set	%	25	7
<b>EF11 Fuel A 70.00h/23.00°C</b>			
Elongation at break	%	-25	-5
Hardness	Shore	±10	0
Volume change	%	-5 to 10	1
Tensile strength	MPa	-25	-5
<b>EF21 Fuel B 70.00h/23.00°C</b>			
Hardness	Shore	0 to -30	-11
Elongation at break	%	-60	-39
Tensile strength	MPa	-60	-36
Volume change	%	0 to 40	24
<b>EO14 IRM 901 70.00h/100.00°C</b>			
Tensile strength	MPa	-25	13
Elongation at break	%	-45	-11
Volume change	%	-10 to 5	-4
Hardness	Shore	-5 to 10	4

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#### **EO34 IRM 903 70.00h/100.00°C**

<b>Volume change</b>	%	0 to 25	7
<b>Tensile strength</b>	MPa	-45	7
<b>Elongation at break</b>	%	-45	-5
<b>Hardness</b>	Shore	-10 to 5	-4

#### **F17 3.00min/-40.00°C**

<b>Low temperature resistance</b>	°C	pass	pass
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#### **Z1 ASTM D297, 23 °C**

<b>Density</b>	g/cm³	1.232
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#### **Z2 ASTM D624, 23 °C, A**

<b>Tear strength</b>	KN/m	63.8
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