Material
70 NBR N702G

Version	Released on
01	29.10.2021

General Data

Colour:	Black
Type of cross-linking:	Sulfur

Physical Properties	Nominal Range	Typical Value	
Density ASTM D297, 23 °C		1.423	g/cm³
Hardness ASTM D2240, Shore A, 23 °C	70 ±5	71	Shore
Modulus 100 %, ASTM D412, C, 23 °C		4.5	MPa
Modulus 200 %, ASTM D412, C, 23 °C		9.09	MPa
Modulus 300 %, ASTM D412, C, 23 °C		11.85	MPa
Tensile strength ASTM D412, C, 23 °C	>10	12.8	MPa
Elongation at break ASTM D412, C, 23 °C	>250	363	%
Compression set ASTM D395, B, 22 h, 100 °C	<25	14	%

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.

Print date: 23.06.2026

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Tested after ASTM D 2000: M 2 BG 7 10 B14 EA14 EF11 EF21 EO14 EO34 Z1 Z2 Z3 Z4 Z5 Z6

ASTM Property		Nominal Range	Typical Value
Elongation at break	%	min. 250	363
Tensile strength	MPa	min. 10	12.8
Hardness	Shore	70 ±5	71
B14 22.00h/100.00°C			
Compression set	%	25	14
EA14 Distilled Water 70.00h/100.00°C			
Hardness	Shore	±10	-5
Volume change	%	±15	6.1
EF11 Fuel A 70.00h/23.00°C			
Elongation at break	%	-25	-6
Tensile strength	MPa	-25	-5
Volume change	%	-5 to 10	0.8
Hardness	Shore	±10	-2
EF21 Fuel B 70.00h/23.00°C			
Hardness	Shore	0 to -30	-16
Elongation at break	%	-60	-29
Volume change	%	0 to 40	23.9
Tensile strength	MPa	-60	-27
EO14 IRM 901 70.00h/100.00°C			
Hardness	Shore	-5 to 10	3
Volume change	%	-10 to 5	-5
Tensile strength	MPa	-25	13
Elongation at break	%	-45	-12

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EO34 IRM 903 70.00h/100.00°C

Elongation at break	%	-45	-16
Hardness	Shore	-10 to 5	-5
Volume change	%	0 to 25	7
Tensile strength	MPa	-45	3

Z1 ASTM D624, 23 °C, A

Tear strength	KN/m		46.09

Z2 ASTM D412, 23 °C, C, 100 %

Modulus	MPa		4.5

Z3 ASTM D412, 23 °C, C, 200 %

Modulus	MPa		9.09

Z4 ASTM D412, 23 °C, C, 300 %

Modulus	MPa		11.85

Z5 ASTM D297, 23 °C

Density	g/cm³		1.423

Z6 ASTM D573, 23 °C

Hardness	Shore		2
Tensile strength	%		5
Elongation at break	%		-18

Z6 ASTM D573, 23 °C, C

Hardness	Shore		2
Tensile strength	%		5
Elongation at break	%		-18

Z6 ASTM D573, 23 °C, Shore A

Hardness	Shore		2
Tensile strength	%		5
Elongation at break	%		-18

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