

Material

70 NBR N701R

Version
01

Released on
28.07.2021

General Data

Colour: black
 Type of cross-linking: Sulfur

Physical Properties

	Nominal Range	Typical Value	
Density ASTM D1817, 23 °C	1.28 ±0.02	1.28	g/cm ³
Hardness ASTM D2240, Shore A, 23 °C	70 ±5	73	Shore
Modulus 100 %, ASTM D412, C, 23 °C			MPa
Tensile strength ASTM D412, C, 23 °C	>14	18.4	MPa
Elongation at break ASTM D412, C, 23 °C	>250	506	%

Temperature Range

static: -40 to 100 °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 2 BG 7 14 A14 B14 EA14 EF11 EF21 EO14 EO34 Z1

ASTM Property		Nominal Range	Typical Value
Tensile strength	MPa	min. 14	18.4
Elongation at break	%	min. 250	506
Hardness	Shore	70 ±5	73
A14 Air 70.00h/100.00°C			
Hardness	Shore		7
Elongation at break	%		-16
Tensile strength	MPa		6
B14 22.00h/100.00°C			
Compression set	%	25	8
EA14 Distilled Water 70.00h/100.00°C			
Hardness	Shore	±10	-2
Volume change	%	±15	4
EF11 Fuel A 70.00h/23.00°C			
Tensile strength	MPa	-25	-6
Volume change	%	-5 to 10	0
Hardness	Shore	±10	0
Elongation at break	%	-25	-8
EF21 Fuel B 70.00h/23.00°C			
Hardness	Shore	0 to -30	-11
Elongation at break	%	-60	-26
Volume change	%	0 to 40	15
Tensile strength	MPa	-60	-24
EO14 IRM 901 70.00h/100.00°C			
Hardness	Shore	-5 to 10	7

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			01	28.07.2021
Volume change	%	-10 to 5	-7	
Elongation at break	%	-45	-19	
Tensile strength	MPa	-25	5	
EO34 IRM 903 70.00h/100.00°C				
Tensile strength	MPa	-45	2	
Volume change	%	0 to 25	3	
Hardness	Shore	-10 to 5	0	
Elongation at break	%	-45	-16	
Z1 ASTM D1817,				
Specific gravity	g/cc		1.28	

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