Material
70 NBR N7011Z

Version	Released on
01	01.10.2021

General Data

Colour: Black

Physical Properties	**Nominal Range**	**Typical Value**	
Hardness ASTM D 2240, Shore A	70 ±5	72	Shore
Tensile strength ASTM D 412	>10	14.35	MPa
Elongation at break ASTM D 412	>250	306	%
Compression set ASTM D 395, B, 22 h, 100 °C	<25	24	%

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 10 A14 B14 EA14 EF21 EO14 EO34

ASTM Property		Nominal Range	Typical Value
Elongation at break	%	min. 250	306
Tensile strength	MPa	min. 10	14.34
Hardness	Shore	70 ±5	72
A14 Air 70.00h/100.00°C			
Elongation at break	%		-30
Tensile strength	MPa		14
Hardness	Shore		7
B14 22.00h/100.00°C			
Compression set	%	25	24
EA14 Distilled Water 70.00h/100.00°C			
Hardness	Shore	±10	5
Volume change	%	±15	2.9
EF21 Fuel B 70.00h/23.00°C			
Volume change	%	0 to 40	20.6
Elongation at break	%	-60	-29
Hardness	Shore	0 to -30	-18
Tensile strength	MPa	-60	-28.6
EO14 IRM 901 70.00h/100.00°C			
Elongation at break	%	-45	-39
Hardness	Shore	-5 to 10	10
Volume change	%	-10 to 5	-8.7
Tensile strength	MPa	-25	11
EO34 IRM 903 70.00h/100.00°C			
Elongation at break	%	-45	-32

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Hardness	Shore	-10 to 5	-1
Volume change	%	0 to 25	5.7
Tensile strength	MPa	-45	1
F17 3.00min/-40.00°C			
Low temperature resistance	°C	pass	pass

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