DICHTOMATIK

FREUDENBERG
SEALING TECHNOLOGIES

Material
70 NBR N7010Z

Version	Released on
01	28.07.2021

General Data

Colour:	Black
Type of cross-linking:	Sulfur

Physical Properties	**Nominal Range**	**Typical Value**	
Density ASTM D297			g/cm³
Hardness ASTM D2240, Shore A	70 ±5	72	Shore
Tensile strength ASTM D412, C	>1450	2081	psi
Elongation at break ASTM D412, C	>250	306	%
Compression set ASTM D, ASTM D395, 22 h, 100 °C, 25 %	<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.

Print date: 23.06.2026

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Tested after ASTM D 2000: M 2 BG 7 10 A14 B14 EA14 EF21 EO14 EO34 Z1

ASTM Property		Nominal Range	Typical Value
Hardness	Shore	70 ±5	72
Elongation at break	%	min. 250	306
Tensile strength	MPa	min. 10	13.35
A14 Air 70.00h/100.00°C			
Tensile strength	MPa		14
Elongation at break	%		-30
Hardness	Shore		7
B14 22.00h/100.00°C			
Compression set	%	25	24
EA14 Distilled Water 70.00h/100.00°C			
Volume change	%	±15	2.9
Hardness	Shore	±10	5
EF21 Fuel B 70.00h/23.00°C			
Tensile strength	MPa	-60	-28.6
Elongation at break	%	-60	-29
Hardness	Shore	0 to -30	-18
Volume change	%	0 to 40	20.6
EO14 IRM 901 70.00h/100.00°C			
Hardness	Shore	-5 to 10	10
Volume change	%	-10 to 5	-5
Elongation at break	%	-45	-9
Tensile strength	MPa	-25	11
EO34 IRM 903 70.00h/100.00°C			
Tensile strength	MPa	-45	1

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Elongation at break	%	-45	-32
Volume change	%	0 to 25	5.7
Hardness	Shore	-10 to 5	-1
Z1			
Specific gravity	g/cc		1.25
Z2 3min/-35°C,			
Low temperature resistance	°C		pass

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