DICHTOMATIK

FREUDENBERG
SEALING TECHNOLOGIES

Material
70 NBR N7020Z

Version	Released on
01	25.11.2021

General Data

Colour:	Black
Type of cross-linking:	Sulfur

Physical Properties	**Nominal Range**	**Typical Value**	
Density ASTM D297, 23 °C		1.258	g/cm³
Hardness ASTM D2240, Shore A, 23 °C	70 ±5	70	Shore
Tensile strength ASTM D412, C, 23 °C	>14	15.75	MPa
Elongation at break ASTM D412, C, 23 °C	>250	330	%
Compression set ASTM D395, 22 h, 100 °C	<25	8	%

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 B14 EA14 EF11 EF21 Z1 Z2 Z3 Z4

ASTM Property		Nominal Range	Typical Value
Elongation at break	%	min. 250	330
Hardness	Shore	70 ±5	70
Tensile strength	MPa	min. 14	15.75
B14 22.00h/100.00°C			
Compression set	%	25	8
EA14 Distilled Water 70.00h/100.00°C			
Volume change	%	±15	4.3
Hardness	Shore	±10	-3
EF11 Fuel A 70.00h/23.00°C			
Volume change	%	-5 to 10	0.8
Tensile strength	MPa	-25	-6
Hardness	Shore	±10	-1
Elongation at break	%	-25	-2
EF21 Fuel B 70.00h/23.00°C			
Elongation at break	%	-60	-26
Tensile strength	MPa	-60	-28
Hardness	Shore	0 to -30	-14
Volume change	%	0 to 40	21.6
Z1			
Tear strength	KN/m		50.99
Z2			
Density	g/cm³		1.258
Z3			
Hardness	Shore		2

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Volume change	%	-0.8
Elongation at break	%	-17
Tensile strength	%	0

Z3 , Shore A

Hardness	Shore	2
Volume change	%	-0.8
Elongation at break	%	-17
Tensile strength	%	0

Z4

Tensile strength	%	-5
Elongation at break	%	-11

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