DICHTOMATIK

FREUDENBERG
SEALING TECHNOLOGIES

Material
70 NBR N7012Z

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, 23 °C			g/cm³
Hardness ASTM D2240, Shore A, 23 °C	70 ±5	68	Shore
Tensile strength ASTM D412, C, 23 °C	>10	12.4	MPa
Elongation at break ASTM D412, C, 23 °C	>250	295	%

Temperature Range

static:	-40 to 100 °C
static short term:	up to 121 °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 5 BG 7 10 A14 B14 EO14 EO34

ASTM Property		Nominal Range	Typical Value
Elongation at break	%	min. 250	295
Tensile strength	MPa	min. 10	12.4
Hardness	Shore	70 ±5	68
A14 Air 70.00h/100.00°C			
Hardness	Shore	±15	5
Elongation at break	%	-40	-22.7
Tensile strength	MPa	-20	62
B14 22.00h/100.00°C			
Compression set	%	25	17.1
EO14 IRM 901 70.00h/100.00°C			
Volume change	%	-10 to 5	-7.5
Elongation at break	%	-45	-22.5
Hardness	Shore	-5 to 15	4
Tensile strength	MPa	-25	8.1
EO34 IRM 903 70.00h/100.00°C			
Tensile strength	MPa	-45	-7.4
Volume change	%	0 to 35	18
Elongation at break	%	-45	-16.3
Hardness	Shore	0 to -15	-10
F19 3.00min/-55.00°C			
Low temperature resistance	°C	pass	pass

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else.

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