DICHTOMATIK

FREUDENBERG
SEALING TECHNOLOGIES

Material
70 EPDM E703E

Version	Released on
01	01.10.2021

General Data

Colour:	Black
Type of cross-linking:	Sulfur

Physical Properties	**Nominal Range**	**Typical Value**	
Density ASTM D 1817		1.177	g/cm³
Hardness ASTM D 2240, Shore A	70 ±5	71	Shore
Tensile strength ASTM D 412	>8	8.65	MPa
Elongation at break ASTM D 412	>150	230	%
Compression set ASTM D 395, B, 24 h, 100 °C, 25 %	<50	18	%

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 AA 7 8 A13 B13 EA14 Z1 Z2 Z3 Z4 Z5 Z6

ASTM Property		Nominal Range	Typical Value
Tensile strength	MPa	min. 8	8.65
Hardness	Shore	70 ±5	71
A13 Air 70.00h/70.00°C			
Elongation at break	%	-50	0
Tensile strength	MPa	±30	5
Hardness	Shore	±15	2
B13 22.00h/70.00°C			
Compression set	%		18
EA14 Distilled Water 70.00h/100.00°C			
Volume change	%	10	2
F17 3.00min/-40.00°C			
Low temperature resistance	°C	pass	pass
Z1 ASTM D624, C			
Tear strength	KN/m		30.4
Z2 ASTM D412, 100 %			
Modulus	MPa		3.9
Z3			
Density	g/cm³		1.177
Z4			
Elongation at break	%		-19
Tensile strength	MPa		6
Volume change	%		-2.9
Hardness	Shore		6

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Z4 ***ASTM D 2240, Shore A***

Elongation at break	%	-19
Tensile strength	MPa	6
Volume change	%	-2.9
Hardness	Shore	6

Z4 ***ASTM D 412,***

Elongation at break	%	-19
Tensile strength	MPa	6
Volume change	%	-2.9
Hardness	Shore	6

Z5

Tensile strength	MPa	-10
Elongation at break	%	-28
Hardness	Shore	2

Z5 ***, Shore A***

Tensile strength	MPa	-10
Elongation at break	%	-28
Hardness	Shore	2

Z6 ***ASTM D412,***

Elongation at break	%	230

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