DICHTOMATIK

FREUDENBERG
SEALING TECHNOLOGIES

Material
75 FKM V750ZBR

Version	Released on
01	01.10.2021

General Data

Colour:	Brown
Type of cross-linking:	Bisphenol cure system

Physical Properties	**Nominal Range**	**Typical Value**	
Density ASTM D297, 23 °C		1.989	g/cm³
Hardness ASTM D2240, Shore A, 23 °C	75 ±5	74	Shore
Modulus 100 %, ASTM D412, C, 23 °C		5.43	MPa
Modulus 200 %, ASTM D412, C, 23 °C		11.82	MPa
Tensile strength ASTM D412, C, 23 °C	>10	13.7	MPa
Elongation at break ASTM D412, C, 23 °C	>175	237.2	%
Compression set ASTM D395, B, 22 h, 200 °C, 25 %	<50	18.4	%

Temperature Range

static:	-20 to 200 °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 4 HK 7 10 A1-11 B38 EF31 EO78 Z1 Z2 Z3 Z5 Z6 Z7 Z8 Z9

ASTM Property		Nominal Range	Typical Value
Elongation at break	%	min. 175	237.2
Tensile strength	MPa	min. 10	13.7
A1-11 Air 70.00h/275.00°C			
Elongation at break	%	-20	-14.8
Hardness	Shore	10	5
Tensile strength	MPa	-40	-17.6
B38 22.00h/200.00°C			
Compression set	%	50	18.4
EF31 Fuel C 70.00h/23.00°C			
Hardness	Shore	±5	-1
Volume change	%	0 to 10	1.1
Tensile strength	MPa	-25	-12.4
Elongation at break	%	-20	5.9
EO78 Fluid No. 101 70.00h/200.00°C			
Elongation at break	%	-20	3.1
Hardness	Shore	-15 to 5	-10
Tensile strength	MPa	-40	-29.4
Volume change	%	0 to 15	12.6
Z1 ASTM D412, 100 %			
Modulus	MPa		5.43
Z2			
Modulus	MPa		11.82
Specific gravity	g/cc		1.989

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Z2 ASTM D412, 200 %

Modulus	MPa	11.82
Specific gravity	g/cc	1.989

Z3

Tensile strength	%	4.6
Volume change	%	-1.8
Hardness	Shore	2
Elongation at break	%	-10.5

Z5

Hardness	Shore	1
Volume change	%	-0.8
Tensile strength	%	-2.3
Elongation at break	%	2.9

Z6

Volume change	%	2.3
Hardness	Shore	-1
Tensile strength	%	-13.4
Elongation at break	%	-3

Z7

Volume change	%	-3.9

Z8 ASTM D624,

Tear strength	KN/m	47.2

Z9 ASTM D2240, Shore A, 23 °C

Hardness	Shore	74

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