DICHTOMATIK

FREUDENBERG
SEALING TECHNOLOGIES

Material
90 FKM V901W

Version	Released on
01	28.07.2021

General Data

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

Physical Properties	**Nominal Range**	**Typical Value**	
Density ASTM D297	1.84 ±0.02	1.84	g/cm³
Hardness ASTM D2240, Shore A	90 ±5		Shore
Modulus 100 %, ASTM D412, C		1742	psi
Tensile strength ASTM D412, C	>1450	2193	psi
Elongation at break ASTM D412, C	>100	127	%

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 HK 9 10 A1-10 B38 EF31 EO78 Z1 Z2 Z3

ASTM Property		Nominal Range	Typical Value
Tensile strength	MPa	min. 10	15.12
Hardness	Shore	90 ±5	92
Elongation at break	%	min. 100	127
A1-10 Air 70.00h/250.00°C			
Elongation at break	%	-25	-6
Hardness	Shore	10	0
Tensile strength	MPa	-25	-3
B38 22.00h/200.00°C			
Compression set	%	50	18.2
EF31 Fuel C 70.00h/23.00°C			
Volume change	%	0 to 10	2.1
Tensile strength	MPa	-25	-7
Elongation at break	%	-20	-3
Hardness	Shore	±5	-4
EO78 Fluid No. 101 70.00h/200.00°C			
Hardness	Shore	-15 to 5	-9
Tensile strength	MPa	-40	-5
Elongation at break	%	-20	10
Volume change	%	0 to 15	7.5
Z1 ASTM D412, 100 %			
Modulus	MPa		12.01
Z2 CNS 5341,			
Density	g/cm³		1.84

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Z3

Elongation at break	%	5
Hardness	Shore	-14
Volume change	%	15.8
Tensile strength at break	MPa	-4

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