

Material

90 FKM V904W

Version
01

Released on
24.09.2021

General Data

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

Physical Properties	Nominal Range	Typical Value	
Density ASTM D1817		2.01	g/cm ³
Hardness ASTM D 2240, Shore A	90 ±5	86	Shore
Tensile strength ASTM D 412	>14	16	MPa
Elongation at break ASTM D 412	>100	128	%
Compression set ASTM D 395, B, 70 h, 200 °C, max., plied	<50	25.1	%
Compression set ASTM D 395, B, 70 h, 175 °C, max., plied	<30	16.7	%

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 3 HK 9 14 A1-10 B37 B38 EF31 EO78 Z1

ASTM Property		Nominal Range	Typical Value
Tensile strength	MPa	min. 14	16
Hardness	Shore	90 ±5	86
Elongation at break	%	min. 100	128
A1-10 Air 70.00h/250.00°C			
Elongation at break	%	-25	-6
Hardness	Shore	10	4
Tensile strength	MPa	-25	-3
B37 22.00h/175.00°C			
Compression set	%	30	16.7
B38 22.00h/200.00°C			
Compression set	%	50	25.1
EF31 Fuel C 70.00h/23.00°C			
Tensile strength	MPa	-25	-16
Volume change	%	0 to 10	1.9
Elongation at break	%	-20	-9
Hardness	Shore	±5	-1
EO78 Fluid No. 101 70.00h/200.00°C			
Tensile strength	MPa	-40	-19
Volume change	%	0 to 15	12
Hardness	Shore	-15 to 5	-8
Elongation at break	%	-20	6
Z1 ASTM D792,			
Modulus	MPa		13.42
Specific gravity	g/cc		2.014

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Z1 *DIN 53504, S2, 100 %, 23 °C*

Modulus	MPa	13.42
Specific gravity	g/cc	2.014

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