Material
90 FKM V903X

Version	Released on
01	15.10.2021

General Data

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

Physical Properties	Nominal Range	Typical Value	
Density ASTM D297, 23 °C		1.85	g/cm³
Hardness ASTM D2240, Shore A, 23 °C	90 ±5	93	Shore
Modulus 100 %, ASTM D412, C, 23 °C		35	MPa
Tensile strength ASTM D412, C, 23 °C	>10	15.8	MPa
Elongation at break ASTM D412, C, 23 °C	>100	121	%
Compression set ASTM D395, B, 22 h, 100 °C, max	<30	18	%
Low temperature ASTM D1329, TR10		-16	°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 3 HK 9 10 A1-10 B37 B38 EF31 EO78 Z1

ASTM Property		Nominal Range	Typical Value
Tensile strength	MPa	min. 10	15.83
Hardness	Shore	90 ±5	93
Elongation at break	%	min. 100	121
A1-10 Air 70.00h/250.00°C			
Hardness	Shore	10	2
Elongation at break	%	-25	-13
Tensile strength	MPa	-25	-15
B37 22.00h/175.00°C			
Compression set	%	30	18
B38 22.00h/200.00°C			
Compression set	%	50	23
EF31 Fuel C 70.00h/23.00°C			
Volume change	%	0 to 10	2.6
Hardness	Shore	±5	-1
Tensile strength	MPa	-25	-11
Elongation at break	%	-20	-2
EO78 Fluid No. 101 70.00h/200.00°C			
Volume change	%	0 to 15	8.3
Hardness	Shore	-15 to 5	-6
Tensile strength	MPa	-40	-13
Elongation at break	%	-20	3
Z1			
Tear Resistance	MPa		34.32
Modulus	MPa		13.56

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Specific gravity	g/cc	1.85

Z1 ASTM D412, 100 %

Tear Resistance	MPa	34.32
Modulus	MPa	13.56
Specific gravity	g/cc	1.85

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