

Material

90 HNBR H901B

Version
01

Released on
28.07.2021

General Data

Colour: black
 Type of cross-linking: Peroxidic

Physical Properties

	Nominal Range	Typical Value	
Density ASTM D297	1.3 ±0.02	1.3	g/cm ³
Hardness ASTM D2240, Type A, Shore A, 1 sec	90 ±5	89	Shore
Modulus 100 %, ASTM D412, C		2026	psi
Tensile strength ASTM D412, C	>1450	3397	psi
Elongation at break ASTM D412, C	>100	165	%

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 DH 9 10 A26 B16 EO16 EO36 Z1 Z2 Z3 Z4

ASTM Property		Nominal Range	Typical Value
Elongation at break	%	min. 100	165
Hardness	Shore	90 ±5	89.1
Tensile strength	MPa	min. 10	23.42
A26 Air 70.00h/150.00°C			
Hardness	Shore	10	4.2
Elongation at break	%	-30	-19
Tensile strength	MPa	-25	-7
B16 22.00h/150.00°C			
Compression set	%	30	13
EO16 IRM 901 70.00h/150.00°C			
Volume change	%	±5	-3
Hardness	Shore	-5 to 10	3.4
Tensile strength	MPa	-20	-10
Elongation at break	%	-30	-21
EO36 IRM 903 70.00h/150.00°C			
Volume change	%	25	9.8
Tensile strength	MPa	-30	-6
Elongation at break	%	-30	-10
Hardness	Shore	-15	-7
F13 nach 3 min bei -10 °C 3.00min/-10.00°C			
Low temperature resistance	°C	pass	pass
Z1 ASTM D 624,			
Tear strength	KN/m		53.05

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Z2 *ASTM D 412, 100 %*

Modulus	MPa	13.97
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Z3

Specific gravity	g/cc	1.3
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Z4 *ASTM D 2137, -25 °C, PASS, C, 3*

Low temperature resistance	°C	-25
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