

Technical data sheet in accordance with ASTM

Material

90 HNBR H901B

black

cross linking: peroxidic

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Physical properties

	nominal range	typical values	
Density ASTM D297	1.30 ±0.02	1.30	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	%

Declarations of conformity

No data found!

Freudenberg

Freudenberg FST GmbH

Technology&Innovation

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Tested after ASTM D 2000: M 3 DH 910 A26 B16 EO16 EO36 F13 Z1 Z2 Z3 Z4

		nominal range	typical values
Hardness	Shore	90 ±5	89.1
Tensile strength	MPa	min. 10	23.42
Elongation at break	%	min. 100	165
A26 Change after aging in Air 70h/150°C			
Hardness	Shore	10	4.2
Tensile strength	%	-25	-7
Elongation at break	%	-30	-19
B16 Compression set 22h/150°C			
	%	30	13
EO16 Change after aging in IRM 901 70h/150°C			
Hardness	Shore	-5 to 10	3.4
Tensile strength	%	-20	-10
Elongation at break	%	-30	-21
Volume	%	±5	-3
EO36 Change after aging in IRM 903 70h/150°C			
Hardness	Shore	-15	-7
Tensile strength	%	-30	-6
Elongation at break	%	-30	-10
Volume	%	25	9.8
F13 Low-temperature resistance after 3 min at -10 °C 3min./-10°C			
		pass	pass
Z1 Tear strength ASTM D 624			
	KN/m	---	53.05
Z2 Modulus 100 %, ASTM D 412			
	MPa	---	13.97
Z3 Specific Gravity			
	g/cc	---	1.3

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Z4 Low-temperature resistance ASTM D 2137, -25 °C, 3 min, Method C; PASS

-25

The given values are based on a limited number of tests on standard test pieces (2mm sheets). 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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