

Technical data sheet in accordance with ASTM

Material

80 HNBR H802B

black

cross linking: peroxidic

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Physical properties

	nominal range	typical values	
Density ASTM D297	1.20 ±0.02	1.20	g/cm ³
Hardness ASTM D2240, Shore A	80 ±5	79	Shore
Modulus 100 %, ASTM D412, C	---	1075	Psi
Tensile strength ASTM D412, C	> 1450	2995	Psi
Elongation at break ASTM D412, C	> 175	286	%
Temperature range	-40°C to 150°C		

Declarations of conformity

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the actual declaration of conformity (DoC) including the conditions and its validity period.

	Country	Part	Remark	Expires
Info ROHS and ELV			EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

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Tested after ASTM D 2000: M 3 DH 810 A26 B16 EO16 EO36 Z1 Z2 Z3 Z4

		nominal range	typical values
Hardness	Shore	80 ±5	79
Tensile strength	MPa	min. 10	20.65
Elongation at break	%	min. 175	286
A26 Change after aging in Air 70h/150°C			
Hardness	Shore	10	4
Tensile strength	%	-25	4
Elongation at break	%	-30	-21
B16 Compression set 22h/150°C			
	%	30	20
EO16 Change after aging in IRM 901 70h/150°C			
Hardness	Shore	-5 to 10	3
Tensile strength	%	-20	11
Elongation at break	%	-30	-6
Volume	%	±5	-3.1
EO36 Change after aging in IRM 903 70h/150°C			
Hardness	Shore	-15	-9
Tensile strength	%	-30	-5
Elongation at break	%	-30	-9
Volume	%	25	13.1
Z1 Tear Resistance			
	MPa	---	0.1
Z2 Modulus 100 %, ASTM D412, S2, 23 °C			
	MPa	---	7.41
Z3 Modulus 200 %, ASTM D412, S2, 23 °C			
	MPa	---	16.73
Z4 Specific Gravity			
	g/cc	---	1.202

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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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