

SABIC Innovative Plastics LNP VERTON NV008E PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

LNP* VERTON* NV008E is a compound based on PC+ABS resin containing 40% Long Glass Fiber. Added features of this material include:
Easy Molding. Structural.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-NV008E-PCABS.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.00050 cm/cm	0.00050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0027 cm/cm	0.0027 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	146 MPa	21200 psi	ASTM D638
	156 MPa	22600 psi	ISO 527
Tensile Strength, Yield	146 MPa	21200 psi	ASTM D638
	156 MPa	22600 psi	ISO 527
Elongation at Break	1.3 %	1.3 %	ISO 527
	1.4 %	1.4 %	ASTM D638
Elongation at Yield	1.3 %	1.3 %	ISO 527
	1.4 %	1.4 %	ASTM D638
Tensile Modulus	12.4 GPa	1800 ksi	1 mm/min; ISO 527
	20.27 GPa	2940 ksi	50 mm/min; ASTM D638
Flexural Strength	213 MPa	30900 psi	ASTM D790
	224 MPa	32500 psi	ISO 178

Flexural Modulus Mechanical Properties	11.03 GPa Metric	1600 ksi English	ASTM D790 Comments
	11.7 GPa	1700 ksi	ISO 178
Izod Impact, Notched	3.04 J/cm	5.70 ft-lb/in	ASTM D256
	3.20 J/cm @Temperature -40.0 °C	5.99 ft-lb/in @Temperature -40.0 °F	ASTM D256
Izod Impact, Unnotched	7.36 J/cm	13.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1A
	34.0 kJ/m ² @Temperature -40.0 °C	16.2 ft-lb/in ² @Temperature -40.0 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J	10.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 µm/m-°C	11.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	20.6 µm/m-°C	11.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	43.2 µm/m-°C	24.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	44.7 µm/m-°C	24.8 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	131 °C	268 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af

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