

SABIC Innovative Plastics LNP VERTON NV006E PC+ABS

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

Material Notes:

LNP* Verton* NV006E is a compound based on PC+ABS blend resin containing 30% 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-NV006E-PCABS.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0011 cm/cm	0.0011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0052 cm/cm	0.0052 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	129 MPa	18700 psi	ASTM D638
	149 MPa	21600 psi	ISO 527
Tensile Strength, Yield	131 MPa	19000 psi	ASTM D638
	149 MPa	21600 psi	ISO 527
Elongation at Break	1.7 %	1.7 %	ASTM D638
	2.0 %	2.0 %	ISO 527
Elongation at Yield	1.6 %	1.6 %	ASTM D638
	2.0 %	2.0 %	ISO 527
Tensile Modulus	10.0 GPa	1450 ksi	1 mm/min; ISO 527

Mechanical Properties	11.03 GPa Metric	1600 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	122 MPa	17700 psi	ISO 178
	193 MPa	28000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
	9.00 GPa	1310 ksi	ISO 178
Izod Impact, Notched	2.56 J/cm	4.80 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/m ²	22.8 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	41.4 µm/m-°C @Temperature -40.0 - 40.0 °C	23.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	42.6 µm/m-°C @Temperature -40.0 - 40.0 °C	23.7 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	52.2 µm/m-°C @Temperature -40.0 - 40.0 °C	29.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	52.3 µm/m-°C @Temperature -40.0 - 40.0 °C	29.1 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	143 °C @Thickness 3.20 mm	289 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	136 °C	277 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	135 °C @Thickness 3.20 mm	275 °F @Thickness 0.126 in	unannealed; ASTM D648

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