

SABIC Innovative Plastics LNP VERTON NV004E PC+ABS

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

Material Notes:

LNP VERTON* NV004E is a compound based on PC+ABS Blend resin containing 20% 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-NV004E-PCABS.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17300 psi	ASTM D638
	124 MPa	18000 psi	ISO 527
Elongation at Break	2.1 %	2.1 %	ISO 527
	2.4 %	2.4 %	ASTM D638
Tensile Modulus	6.61 GPa	959 ksi	50 mm/min; ASTM D638
	7.79 GPa	1130 ksi	1 mm/min; ISO 527
Flexural Strength	139 MPa	20200 psi	ISO 178
	159 MPa	23100 psi	ASTM D790
Flexural Modulus	5.67 GPa	822 ksi	ASTM D790

Mechanical Properties	6.97 GPa Metric	1010 ksi English	ISO 178 Comments
Izod Impact, Notched	1.61 J/cm	3.02 ft-lb/in	ASTM D256
	1.66 J/cm @Temperature -40.0 Â°C	3.11 ft-lb/in @Temperature -40.0 Â°F	ASTM D256
Izod Impact, Unnotched	5.71 J/cm	10.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	18.0 kJ/mÂ²	8.57 ft-lb/inÂ²	80*10*4; ISO 180/1A
	17.0 kJ/mÂ² @Temperature -40.0 Â°C	8.09 ft-lb/inÂ² @Temperature -40.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	41.0 kJ/mÂ²	19.5 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J	11.8 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.2 Âµm/m-Â°C	24.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	44.5 Âµm/m-Â°C	24.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	46.8 Âµm/m-Â°C	26.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	47.7 Âµm/m-Â°C	26.5 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	133 Â°C	271 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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