

SABIC Innovative Plastics LNP VERTON RVL28 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* VERTON* RVL28 is a compound based on Nylon 66 resin containing 40% Long Glass Fiber, 10% PTFE. Added features of this material include: Easy Molding, Heat Stabilized, Wear Resistant, Structural.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-RVL28-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ISO 1183
	1.58 g/cc	0.0571 lb/in ³	ASTM D792
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
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	
Linear Mold Shrinkage, Transverse	0.0033 cm/cm	0.0033 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0077 cm/cm	0.0077 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	228 MPa	33100 psi	ISO 527
	234 MPa	33900 psi	ASTM D638
Tensile Strength, Yield	228 MPa	33100 psi	ISO 527
	234 MPa	33900 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
	2.4 %	2.4 %	ISO 527
Elongation at Yield	2.3 %	2.3 %	ASTM D638
	2.4 %	2.4 %	ISO 527
Tensile Modulus	13.23 GPa	1919 ksi	1 mm/min; ISO 527

Mechanical Properties	14.47 GPa Metric	2099 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	337 MPa	48900 psi	ASTM D790
	351 MPa	50900 psi	ISO 178
Flexural Modulus	12.41 GPa	1800 ksi	ASTM D790
	13.0 GPa	1890 ksi	ISO 178
Izod Impact, Notched	2.56 J/cm	4.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	14.09 J/cm	26.40 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	23.0 kJ/m ²	10.9 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	93.0 kJ/m ²	44.3 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
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.6 Åµm/m-Å°C	27.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	49.0 Åµm/m-Å°C	27.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	21.0 Åµm/m-Å°C	11.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	255 Å°C	491 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	256 Å°C	493 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	259 Å°C	498 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	253 Å°C	487 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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