

SABIC Innovative Plastics LNP VERTON RV00CESS PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP VERTON* RV00CESS is a compound based on Nylon 66 resin containing 60% Long Glass Fiber. Added features of this material include:
Easy Molding, Heat Stabilized, Structural.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-RV00CESS-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.71 g/cc	0.0618 lb/in ³	ASTM D792
	1.71 g/cc	0.0618 lb/in ³	ISO 1183
Moisture Absorption	0.440 %	0.440 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	261 MPa	37900 psi	ISO 527
	270 MPa	39200 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ASTM D638
	1.6 %	1.6 %	ISO 527
Tensile Modulus	19.65 GPa	2850 ksi	50 mm/min; ASTM D638
	23.28 GPa	3376 ksi	
Flexural Strength	430 MPa	62400 psi	ASTM D790
	433 MPa	62800 psi	ISO 178
Flexural Modulus	18.02 GPa	2614 ksi	ASTM D790

Mechanical Properties	18.92 GPa Metric	2744 ksi English	ISO 178 Comments
Izod Impact, Notched	4.11 J/cm	7.70 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	54.0 kJ/m ²	25.7 ft-lb/in ²	80*10*4; ISO 180/1A
	43.0 kJ/m ² @Temperature -40.0 °C	20.5 ft-lb/in ² @Temperature -40.0 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	102 kJ/m ²	48.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	18.0 J	13.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	18.0 J	13.3 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 µm/m-°C	9.44 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	17.6 µm/m-°C	9.78 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	53.0 µm/m-°C	29.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	53.6 µm/m-°C	29.8 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	252 °C	486 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	252 °C	486 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	247 °C @Thickness 3.20 mm	477 °F @Thickness 0.126 in	unannealed; ASTM D648

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