

SABIC Innovative Plastics LNP VERTON RV00CEXS PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* VERTON* RV00CEXS is a compound based on Nylon 66 resin containing 60% Long Glass Fiber. Added features of this grade include:
Easy Molding, Structural.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-RV00CEXS-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.72 g/cc	1.72 g/cc	ASTM D792
Density	1.72 g/cc	0.0621 lb/in ³	ASTM D792
Moisture Absorption	0.530 %	0.530 %	50% RH, 24 hrs; ASTM D570
	0.670 %	0.670 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	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	254 MPa	36800 psi	Type I, 5 mm/min; ASTM D638
	264 MPa	38300 psi	5 mm/min; ISO 527
Elongation at Break	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
	1.6 %	1.6 %	5 mm/min; ISO 527
Tensile Modulus	21.86 GPa	3171 ksi	1 mm/min; ISO 527
	22.08 GPa	3202 ksi	50 mm/min; ASTM D638
Flexural Strength	403 MPa	58500 psi	1.3 mm/min, 50 mm span; ASTM D790
	404 MPa	58600 psi	ISO 178
Flexural Yield Strength	404 MPa	58600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	18.1 GPa	2630 ksi	1.3 mm/min, 50 mm span; ASTM D790
	18.74 GPa	2718 ksi	2 mm/min; ISO 178

Mechanical Properties	4.10 J/cm Metric	7.68 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	11.7 J/cm	21.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	37.0 kJ/m ²	17.6 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	62.0 kJ/m ²	29.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 °C	9.59 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	9.00 J	6.64 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	49.3 µm/m-°C	27.4 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	63.0 µm/m-°C	35.0 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	253 °C	487 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	252 °C @Thickness 3.20 mm	486 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	247 °C	477 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	248 °C @Thickness 3.20 mm	478 °F @Thickness 0.126 in	unannealed; ASTM D648

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