

SABIC Innovative Plastics LNP VERTON RV00AES PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP VERTON* RV00AES is a compound based on Nylon 66 resin containing Long Glass. Added features of this material include: Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-RV00AES-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ASTM D792
	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0018 cm/cm	0.0018 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0018 cm/cm	0.0018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0022 cm/cm	0.0022 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0022 cm/cm	0.0022 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	254 MPa	36800 psi	ASTM D638
	265 MPa	38400 psi	ISO 527
Elongation at Break	1.9 %	1.9 %	ASTM D638
	1.9 %	1.9 %	ISO 527
Tensile Modulus	17.51 GPa	2540 ksi	50 mm/min; ASTM D638
	18.38 GPa	2666 ksi	1 mm/min; ISO 527
Flexural Strength	370 MPa	53700 psi	ISO 178
	374 MPa	54200 psi	ASTM D790
Flexural Modulus	14.16 GPa	2054 ksi	ASTM D790
	15.55 GPa	2255 ksi	ISO 178

Izod Impact, Notched Mechanical Properties	3.84 J/cm Metric	7.19 ft-lb/in English	ASTM D256 Comments
Izod Impact, Notched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1A
	38.0 kJ/m ² @Temperature -40.0 Â°C	18.1 ft-lb/in ² @Temperature -40.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	89.0 kJ/m ²	42.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	15.0 J	11.1 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.5 Âµm/m-Â°C	10.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	18.6 Âµm/m-Â°C	10.3 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	67.3 Âµm/m-Â°C	37.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	67.3 Âµm/m-Â°C	37.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	258 Â°C	496 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	253 Â°C	487 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	241 Â°C @Thickness 3.20 mm	466 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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