

SABIC Innovative Plastics LNP THERMOTUF V1000 PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOTUF* V1000 is a compound based on Nylon resin. Added features of this material include: High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOTUF-V1000-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
	1.073 g/cc	0.03876 lb/in ³	ASTM D792
Moisture Absorption	0.800 %	0.800 %	50% RH, 24 hrs; ASTM D570
	1.37 %	1.37 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527
	50.0 MPa	7250 psi	ASTM D638
Tensile Strength, Yield	44.0 MPa	6380 psi	ISO 527
	45.0 MPa	6530 psi	ASTM D638
Elongation at Break	60.3 %	60.3 %	ASTM D638
	168.1 %	168.1 %	ISO 527
Elongation at Yield	4.6 %	4.6 %	ASTM D638
	17.1 %	17.1 %	ISO 527
Tensile Modulus	1.80 GPa	261 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Flexural Strength	64.0 MPa	9280 psi	ISO 178
	74.0 MPa	10700 psi	ASTM D790
Flexural Modulus	1.70 GPa	247 ksi	ISO 178
	1.93 GPa	280 ksi	ASTM D790
Izod Impact, Notched (ISO)	84.0 kJ/m ²	40.0 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	137 kJ/m ²	65.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	56.0 J	41.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	77.0 J	56.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	127 µm/m-°C	70.6 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	127 µm/m-°C	70.6 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	126 µm/m-°C	70.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	126 µm/m-°C	70.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	53.0 °C	127 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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