

SABIC Innovative Plastics LNP THERMOTUF V1000SU PA (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

LNP* Thermotuf* V1000SU is a compound based on Nylon resin. Added features of this material include: Heat Stabilized, UV Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOTUF-V1000SU-PA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792
	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Moisture Absorption	0.600 %	0.600 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.021 - 0.023 cm/cm	0.021 - 0.023 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.022 cm/cm	0.022 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.025 - 0.027 cm/cm	0.025 - 0.027 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.026 cm/cm	0.026 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Flexural Strength	53.0 MPa	7690 psi	ISO 178
	55.0 MPa	7980 psi	ASTM D790
Flexural Modulus	1.70 GPa	247 ksi	ISO 178
	2.06 GPa	299 ksi	ASTM D790
Izod Impact, Notched	1.97 J/cm	3.69 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	27.0 kJ/m ²	12.8 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	134 µm/m-°C	74.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	135 µm/m-°C	75.0 µin/in-°F	

Thermal Properties	Metric @ Temperature -40.0 - 40.0 °C	English @ Temperature -40.0 - 104 °F	Comments
CTE, linear, Transverse to Flow	133 µm/m-°C @Temperature -40.0 - 40.0 °C	73.9 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	134 µm/m-°C @Temperature -40.0 - 40.0 °C	74.4 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	192 °C @Thickness 3.20 mm	378 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	147 °C	297 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	193 °C @Thickness 3.20 mm	379 °F @Thickness 0.126 in	unannealed; ASTM D648

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