

SABIC Innovative Plastics LNP THERMOTUF VF004S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOTUF* VF004S is a compound based on Nylon resin containing Glass Fiber. Added features of this material include: Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOTUF-VF004S-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Moisture Absorption	0.740 %	0.740 %	50% RH, 24 hrs; ASTM D570
	1.10 %	1.10 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	97.0 MPa	14100 psi	5 mm/min; ISO 527
	102 MPa	14800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
Elongation at Yield	2.6 %	2.6 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.21 GPa	901 ksi	1 mm/min; ISO 527
	6.47 GPa	938 ksi	50 mm/min; ASTM D638
Flexural Strength	156 MPa	22600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.08 GPa	737 ksi	2 mm/min; ISO 178
	5.62 GPa	815 ksi	1.3 mm/min, 50 mm span; ASTM D790

Izod Impact, Notched Mechanical Properties	1.28 J/cm Metric	2.40 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	7.04 J/cm	13.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/mÂ²	5.71 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	42.0 kJ/mÂ²	20.0 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	22.0 J @Temperature 23.0 Â°C	16.2 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.9 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	16.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	81.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	45.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	235 Â°C	455 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	256 Â°C @Thickness 3.20 mm	493 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	235 Â°C	455 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	240 Â°C @Thickness 3.20 mm	464 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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