

SABIC Innovative Plastics LNP THERMOTUF VF008 Super Tough Nylon

Category : Polymer , Thermoplastic , Nylon

Material Notes:

LNP THERMOTUF* VF008 is a compound based on Super Tough Nylon resin containing Glass Fiber. 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-VF008-Super-Tough-Nylon.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Moisture Absorption	0.450 %	0.450 %	50% RH, 24 hrs; ASTM D570
	0.660 %	0.660 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	126 MPa	18300 psi	Type I, 5 mm/min; ASTM D638
	127 MPa	18400 psi	5 mm/min; ISO 527
	131 MPa	19000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D638
	3.3 %	3.3 %	5 mm/min; ISO 527
Elongation at Yield	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D638
	3.2 %	3.2 %	5 mm/min; ISO 527
Tensile Modulus	9.90 GPa	1440 ksi	1 mm/min; ISO 527
	10.28 GPa	1491 ksi	50 mm/min; ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
	194 MPa	28100 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric 201 MPa	English 28900 psi	Comments ISO 178
Flexural Yield Strength	199 MPa	28900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.53 GPa	1240 ksi	2 mm/min; ISO 178
	8.60 GPa	1250 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.64 GPa	1400 ksi	ASTM D790
Izod Impact, Notched	1.71 J/cm	3.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.5 J/cm	19.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	58.0 kJ/m ²	27.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	18.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Thermal Conductivity	0.380 W/m-K	2.64 BTU-in/hr-ft ² - Â°F	ASTM E 1530
Deflection Temperature at 0.46 MPa (66 psi)	255 Â°C	491 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	258 Â°C @Thickness 3.20 mm	496 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	238 Â°C	460 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	245 Â°C @Thickness 3.20 mm	473 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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