

SABIC Innovative Plastics LNP THERMOTUF PX06417 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOTUF* PX06417 is a compound based on Nylon 6 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-PX06417-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Moisture Absorption	0.640 %	0.640 %	50% RH, 24 hrs; ASTM D570
	1.02 %	1.02 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0017 cm/cm	0.0017 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0093 cm/cm	0.0093 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	147 MPa	21300 psi	ISO 527
	152 MPa	22000 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
	2.9 %	2.9 %	ISO 527
Tensile Modulus	11.4 GPa	1650 ksi	1 mm/min; ISO 527
	12.82 GPa	1859 ksi	50 mm/min; ASTM D638
Flexural Strength	228 MPa	33100 psi	ASTM D790
	243 MPa	35200 psi	ISO 178

Flexural Modulus Mechanical Properties	8.96 GPa Metric	1300 ksi English	ASTM D790 Comments
	11.0 GPa	1600 ksi	ISO 178
Izod Impact, Notched	1.49 J/cm	2.79 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.89 J/cm	20.40 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	70.0 kJ/mÂ²	33.3 ft-lb/inÂ²	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	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 Âµm/m-Â°C	14.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	25.2 Âµm/m-Â°C	14.0 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	55.9 Âµm/m-Â°C	31.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	56.0 Âµm/m-Â°C	31.1 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)	220 Â°C	428 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	207 Â°C	405 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	208 Â°C	406 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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