

SABIC Innovative Plastics LNP THERMOTUF PF006I PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOTUF* PF006I is a compound based on Nylon 6 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-PF006I-PA-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption	0.830 %	0.830 %	23°C / 50% RH; ISO 62
	0.830 %	0.830 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0011 - 0.0030 cm/cm	0.0011 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0062 - 0.0067 cm/cm	0.0062 - 0.0067 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 - 0.020 cm/cm	0.0090 - 0.020 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	Type I, 5 mm/min; ASTM D638
	99.0 MPa	14400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	35.0 MPa	5080 psi	5 mm/min; ISO 527
	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	8.1 %	8.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	9.65 GPa	1400 ksi	1 mm/min; ISO 527
	16.23 GPa	2354 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	157 MPa Metric	22800 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Modulus	6.82 GPa	989 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.27 J/cm	13.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	53.0 kJ/m ²	25.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J	11.8 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
Deflection Temperature at 0.46 MPa (66 psi)	141 °C	286 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	139 °C	282 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	137 °C	279 °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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China