

SABIC Innovative Plastics LNP THERMOTUF OF006I PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP THERMOTUF* OF006I is a compound based on PPS - Linear 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-OF006I-PPS-Linear.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
	1.486 g/cc	0.05369 lb/in ³	ASTM D792
Moisture Absorption	0.0400 %	0.0400 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0023 cm/cm	0.0023 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0067 cm/cm	0.0067 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	139 MPa	20200 psi	ISO 527
	143 MPa	20700 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ISO 527
	2.4 %	2.4 %	ASTM D638
Tensile Modulus	9.82 GPa	1420 ksi	1 mm/min; ISO 527
	10.82 GPa	1569 ksi	50 mm/min; ASTM D638
Flexural Strength	207 MPa	30000 psi	ASTM D790
	212 MPa	30700 psi	ISO 178
Flexural Modulus	9.79 GPa	1420 ksi	ASTM D790

Mechanical Properties	10.06 GPa Metric	1459 ksi English	ISO 178 Comments
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.79 J/cm	14.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J	9.59 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

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