

SABIC Innovative Plastics LNP THERMOTUF WF003I Polyester, TP

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LNP THERMOTUF* WF003I is a compound based on Polyester, TP 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-WF003I-Polyester-TP.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
	1.374 g/cc	0.04964 lb/in ³	ASTM D792
Moisture Absorption	0.0800 %	0.0800 %	23°C / 50% RH; ISO 62
	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0075 cm/cm	0.0075 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0095 cm/cm	0.0095 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.010 cm/cm	0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	76.0 MPa	11000 psi	ISO 527
	79.0 MPa	11500 psi	ASTM D638
Tensile Strength, Yield	78.0 MPa	11300 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Elongation at Yield	3.0 %	3.0 %	ISO 527
Tensile Modulus	5.00 GPa	725 ksi	1 mm/min; ISO 527
Flexural Strength	130 MPa	18900 psi	ISO 178
	134 MPa	19400 psi	ASTM D790

Flexural Modulus Mechanical Properties	4.58 GPa Metric	664 ksi English	ASTM D790 Comments
	4.71 GPa	683 ksi	ISO 178
Izod Impact, Notched	1.28 J/cm	2.40 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.20 J/cm	13.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	46.0 kJ/m ²	21.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J	8.85 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 1.8 MPa (264 psi)	201 °C @Thickness 3.20 mm	394 °F @Thickness 0.126 in	unannealed; ASTM D648

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