

SABIC Innovative Plastics LNP THERMOCOMP WF002I PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

LNP* THERMOTUF* WF006I is a compound based on PBT resin containing 10% Glass Fiber. Added feature of this grade is: High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WF002I-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
	0.100 %	0.100 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
	60.0 MPa	8700 psi	5 mm/min; ISO 527
Tensile Strength, Yield	62.0 MPa	8990 psi	5 mm/min; ISO 527
	64.0 MPa	9280 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.3 %	4.3 %	5 mm/min; ISO 527
	4.4 %	4.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.4 %	3.4 %	5 mm/min; ISO 527
	3.4 %	3.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.67 GPa	532 ksi	1 mm/min; ISO 527
	3.77 GPa	547 ksi	5 mm/min; ASTM D638
Flexural Strength	102 MPa	14800 psi	ISO 178
Flexural Yield Strength	102 MPa	14800 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	3.27 GPa Metric	474 ksi English	2 mm/min; ISO 178 Comments
	3.32 GPa	482 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.25 J/cm	2.34 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.08 J/cm	13.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	39.0 kJ/m ²	18.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 °C	4.43 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 µm/m-°C @Temperature -30.0 - 30.0 °C	40.0 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	111 µm/m-°C @Temperature -30.0 - 30.0 °C	61.7 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	207 °C	405 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	214 °C @Thickness 3.20 mm	417 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	161 °C	322 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	178 °C @Thickness 3.20 mm	352 °F @Thickness 0.126 in	unannealed; ASTM D648

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