

SABIC Innovative Plastics LNP THERMOCOMP WF006L PBT

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

Material Notes:

LNP* THERMOCOMP* WF006L is a compound based on PBT resin containing 30% Glass Fiber. Added feature of this material is: Low Extractible.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WF006L-PBT.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0062 cm/cm	0.0062 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0134 cm/cm	0.0134 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	99.0 MPa	14400 psi	5 mm/min; ISO 527
	111 MPa	16100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.50 GPa	1230 ksi	50 mm/min; ASTM D638
	12.96 GPa	1880 ksi	1 mm/min; ISO 527
Flexural Strength	151 MPa	21900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.83 GPa	1140 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.13 GPa	1320 ksi	
Izod Impact, Notched	0.670 J/cm	1.26 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	33.0 kJ/m ²	15.7 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	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	221 Â°C @Thickness 3.20 mm	430 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	201 Â°C	394 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	205 Â°C @Thickness 3.20 mm	401 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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