

SABIC Innovative Plastics LNP Thermocomp WB006 PBT

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

Material Notes:

LNP* Thermocomp* WB006 is a compound based on Polybutylene Terephthalate resin containing Glass Bead. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-WB006-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D 792
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.060 %	0.060 %	23 ^o C / 50% RH; ISO 62
	0.050 %	0.050 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.010 - 0.040 cm/cm	0.010 - 0.040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.040 cm/cm	0.010 - 0.040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D 638
	54.0 MPa	7830 psi	5 mm/min; ISO 527
Elongation at Break	4.4 %	4.4 %	5 mm/min; ISO 527
	5.6 %	5.6 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	3.7 %	3.7 %	5 mm/min; ISO 527
	4.2 %	4.2 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	4.07 GPa	590 ksi	50 mm/min; ASTM D 638
	4.20 GPa	609 ksi	1 mm/min; ISO 527
Flexural Strength	78.0 MPa	11300 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	3.60 GPa	522 ksi	2 mm/min; ISO 178
	3.98 GPa	577 ksi	1.3 mm/min, 50 mm span; ASTM D

Mechanical Properties	Metric	English	790 Comments
Izod Impact, Notched	0.220 J/cm @Temperature 23.0 Â°C	0.412 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	1.72 J/cm @Temperature 23.0 Â°C	3.22 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	2.00 kJ/mÂ² @Temperature 23.0 Â°C	0.952 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	11.0 kJ/mÂ² @Temperature 23.0 Â°C	5.23 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	74.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	41.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	71.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	39.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	170 Â°C	338 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	186 Â°C @Thickness 3.20 mm	367 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	93.0 Â°C	199 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	106 Â°C @Thickness 3.20 mm	223 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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