

SABIC Innovative Plastics LNP Thermocomp WB008 PBT

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

Material Notes:

LNP* Thermocomp* WB008 is a compound based on Thermoplastic Polyester (PBT) containing Glass Beads. 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-WB008-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.66 g/cc	1.66 g/cc	ASTM D 792
Density	1.66 g/cc	0.0600 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.51 %	0.51 %	23 ^o C / 50% RH; ISO 62
	0.42 %	0.42 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
Linear Mold Shrinkage, Transverse	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	5 mm/min; ISO 527
	49.0 MPa	7110 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	47.0 MPa	6820 psi	5 mm/min; ISO 527
Elongation at Break	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D 638
	1.7 %	1.7 %	5 mm/min; ISO 527
Elongation at Yield	1.6 %	1.6 %	5 mm/min; ISO 527
Tensile Modulus	4.86 GPa	705 ksi	1 mm/min; ISO 527
	5.07 GPa	735 ksi	50 mm/min; ASTM D 638
Flexural Strength	79.0 MPa	11500 psi	1.3 mm/min, 50 mm span; ASTM D 790
	82.0 MPa	11900 psi	ISO 178
	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D

Flexural Yield Strength Mechanical Properties	Metric	English	790 Comments
Flexural Modulus	4.62 GPa	670 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	4.66 GPa	676 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D 256
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Unnotched	2.88 J/cm	5.40 ft-lb/in	ASTM D 4812
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Notched (ISO)	2.00 kJ/mÅ²	0.952 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Unnotched (ISO)	16.0 kJ/mÅ²	7.61 ft-lb/inÅ²	80*10*4; ISO 180/1U
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	4.00 J	2.95 ft-lb	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	71.0 Åµm/m-Å°C	39.4 Åµin/in-Å°F	ASTM D 696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	67.0 Åµm/m-Å°C	37.2 Åµin/in-Å°F	ASTM D 696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	165 Å°C	329 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	189 Å°C	372 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	87.0 Å°C	189 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	123 Å°C	253 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648

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