

SABIC Innovative Plastics LNP THERMOCOMP WH0200B PBT

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

Material Notes:

LNP* Thermocomp* WH0200B is a compound based on PBT resin containing proprietary fillers. Added features include: High Specific Gravity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WH0200B-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.05 g/cc	2.05 g/cc	ASTM D792
Density	2.044 g/cc	0.07384 lb/in ³	ASTM D792
Moisture Absorption	0.0400 %	0.0400 %	50% RH, 24 hrs; ASTM D570
	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	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	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D638
	48.0 MPa	6960 psi	5 mm/min; ISO 527
Elongation at Break	1.7 %	1.7 %	5 mm/min; ISO 527
	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
	1.5 %	1.5 %	5 mm/min; ISO 527
Tensile Modulus	6.02 GPa	873 ksi	1 mm/min; ISO 527
	6.23 GPa	904 ksi	5 mm/min; ASTM D638
Flexural Strength	84.0 MPa	12200 psi	ISO 178
	88.0 MPa	12800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.41 GPa	785 ksi	2 mm/min; ISO 178
			1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	5.45 GPa Metric	790 ksi English	D790 Comments
Izod Impact, Notched	0.380 J/cm	0.712 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.47 J/cm	4.63 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 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
CTE, linear, Parallel to Flow	54.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	30.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	67.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	37.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	198 Â°C	388 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	206 Â°C @Thickness 3.20 mm	403 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	132 Â°C	270 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	156 Â°C @Thickness 3.20 mm	313 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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