

SABIC Innovative Plastics LNP THERMOCOMP WH0450E PBT

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

Material Notes:

LNP* Thermocomp* WH0450E is a compound based on Polybutylene Terephthalate resin containing High Specific Gravity Filler. Added features of this material include: High Specific Gravity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WH0450E-PBT.php

Physical Properties	Metric	English	Comments
Density	4.50 g/cc	0.163 lb/in ³	ASTM D792
	4.50 g/cc	0.163 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.0 MPa	4060 psi	ASTM D638
	33.0 MPa	4790 psi	ISO 527
Tensile Strength, Yield	29.0 MPa	4210 psi	ISO 527
	30.0 MPa	4350 psi	ASTM D638
Elongation at Break	0.30 %	0.30 %	ASTM D638
	0.40 %	0.40 %	ISO 527
Elongation at Yield	0.30 %	0.30 %	ASTM D638
	0.30 %	0.30 %	ISO 527
Tensile Modulus	9.64 GPa	1400 ksi	1 mm/min; ISO 527
	14.39 GPa	2087 ksi	50 mm/min; ASTM D638
Flexural Strength	54.0 MPa	7830 psi	ISO 178
	55.0 MPa	7980 psi	ASTM D790
Flexural Modulus	11.48 GPa	1665 ksi	ISO 178
	11.7 GPa	1700 ksi	ASTM D790

Mechanical Properties	Metric ¹ /cm	English ¹ -lb/in	Comments
Izod Impact, Unnotched	1.08 J/cm	2.02 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	173 Â°C	343 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	182 Â°C @Thickness 3.20 mm	360 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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