

SABIC Innovative Plastics LNP THERMOCOMP WH0270F PBT

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

Material Notes:

LNP* Thermocomp* WH0270F is a dense compound based on PBT.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WH0270F-PBT.php

Physical Properties	Metric	English	Comments
Density	2.695 g/cc	0.09736 lb/in ³	ASTM D792
Moisture Absorption	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 MPa	4350 psi	5 mm/min; ISO 527
	31.0 MPa	4500 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	31.0 MPa	4500 psi	Type I, 5 mm/min; ASTM D638
	31.0 MPa	4500 psi	5 mm/min; ISO 527
Elongation at Break	0.70 %	0.70 %	Type I, 5 mm/min; ASTM D638
	0.70 %	0.70 %	5 mm/min; ISO 527
	0.80 %	0.80 %	Flexural Strain, break, 2 mm/min; ISO 178
Elongation at Yield	0.50 %	0.50 %	Type I, 5 mm/min; ASTM D638
	0.50 %	0.50 %	5 mm/min; ISO 527
Tensile Modulus	8.28 GPa	1200 ksi	1 mm/min; ISO 527
	10.46 GPa	1517 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	52.0 MPa	7540 psi	2 mm/min; ISO 178
	56.0 MPa	8120 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.32 GPa	1210 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.190 J/cm	0.356 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.50 J/cm	2.81 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)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.3 - 45.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	24.1 - 25.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	57.5 - 59.5 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	31.9 - 33.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	162 Â°C	324 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	164 Â°C @Thickness 3.20 mm	327 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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