

SABIC Innovative Plastics LNP THERMOCOMP WF004 PBT

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

Material Notes:

LNP* THERMOCOMP* WF004 is a compound based on PBT resin containing 20% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WF004-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ASTM D792
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
	0.0700 %	0.0700 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Time 86400 sec	0.0030 - 0.0050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	5 mm/min; ISO 527
	117 MPa	17000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.4 %	2.4 %	5 mm/min; ISO 527
Tensile Modulus	7.58 GPa	1100 ksi	50 mm/min; ASTM D638
	7.59 GPa	1100 ksi	1 mm/min; ISO 527
Flexural Strength	173 MPa	25100 psi	ISO 178
	182 MPa	26400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	183 MPa	26500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.66 GPa	966 ksi	2 mm/min; ISO 178
	7.11 GPa	1030 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric J/cm	English lb/in	Comments
Izod Impact, Unnotched	6.01 J/cm	11.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 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	39.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	21.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	102 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	56.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	218 Â°C	424 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	222 Â°C @Thickness 3.20 mm	432 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	198 Â°C	388 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	207 Â°C @Thickness 3.20 mm	405 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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