

SABIC Innovative Plastics LNP THERMOCOMP WF008 PBT

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

Material Notes:

LNP THERMOCOMP* WF008 is a compound based on PBT resin containing 40% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WF008-PBT.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	ASTM D792
	1.64 g/cc	0.0592 lb/in ³	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
	0.0500 %	0.0500 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.040 cm/cm	0.010 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	128 MPa	18600 psi	Type I, 5 mm/min; ASTM D638
	134 MPa	19400 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	12.54 GPa	1819 ksi	50 mm/min; ASTM D638
	13.42 GPa	1946 ksi	1 mm/min; ISO 527
Flexural Strength	190 MPa	27600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	11.81 GPa	1713 ksi	2 mm/min; ISO 178
	11.88 GPa	1723 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.950 J/cm	1.78 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.19 J/cm	11.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
Dart Drop, Total Energy	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	17.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	72.9 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	40.5 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	208 Â°C @Thickness 3.20 mm	406 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	220 Â°C	428 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	222 Â°C @Thickness 3.20 mm	432 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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