

SABIC Innovative Plastics LNP THERMOCOMP WF002 PBT

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

Material Notes:

LNP* THERMOCOMP* WF002 is a compound based on PBT containing 10% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WF002-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Moisture Absorption	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
	0.100 %	0.100 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 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	76.0 MPa	11000 psi	5 mm/min; ISO 527
	77.0 MPa	11200 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	76.0 MPa	11000 psi	5 mm/min; ISO 527
	77.0 MPa	11200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.8 %	1.8 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.02 GPa	728 ksi	1 mm/min; ISO 527
	5.03 GPa	730 ksi	50 mm/min; ASTM D638
Flexural Strength	121 MPa	17500 psi	1.3 mm/min, 50 mm span; ASTM D790
	135 MPa	19600 psi	ISO 178
Flexural Yield Strength	118 MPa	17100 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
	4.36 GPa	632 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.29 J/cm	4.29 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)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	5.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	2.78 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	10.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	5.56 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	212 Â°C	414 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	213 Â°C @Thickness 3.20 mm	415 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	177 Â°C	351 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	179 Â°C @Thickness 3.20 mm	354 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China