

SABIC Innovative Plastics LNP THERMOCOMP GF004 PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

LNP* Thermocomp* GF004 is a compound based on Polysulfone resin containing 20% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-GF004-PSU.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0064 cm/cm	0.0064 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0085 cm/cm	0.0085 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 cm/cm	0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	91.0 MPa	13200 psi	ASTM D638
Tensile Strength, Yield	91.0 MPa	13200 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
Elongation at Yield	2.3 %	2.3 %	ASTM D638
Tensile Modulus	6.20 GPa	899 ksi	50 mm/min; ASTM D638
Flexural Strength	137 MPa	19900 psi	ASTM D790
	145 MPa	21000 psi	ISO 178
Flexural Modulus	6.00 GPa	870 ksi	ISO 178
	6.20 GPa	899 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
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)	31.0 kJ/m ²	14.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	28.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	52.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	29.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	25.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	25.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	14.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	180 $\text{Å}^\circ\text{C}$	356 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	178 $\text{Å}^\circ\text{C}$	352 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	174 $\text{Å}^\circ\text{C}$	345 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	173 $\text{Å}^\circ\text{C}$	343 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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