

SABIC Innovative Plastics LNP THERMOCOMP GF006 PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

LNP THERMOCOMP* GF006 is a compound based on Polysulfone resin containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-GF006-PSU.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
	1.483 g/cc	0.05358 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0022 cm/cm	0.0022 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0058 cm/cm	0.0058 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527
	104 MPa	15100 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ISO 527
	2.0 %	2.0 %	ASTM D638
Tensile Modulus	8.42 GPa	1220 ksi	1 mm/min; ISO 527
	8.82 GPa	1280 ksi	50 mm/min; ASTM D638
Flexural Strength	150 MPa	21800 psi	ISO 178
	156 MPa	22600 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790

Mechanical Properties	^{8.38 GPa} Metric	^{1220 ksi} English	^{ISO 178} Comments
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.21 J/cm	7.89 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	27.0 kJ/m ²	12.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; 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	30.6 Åµm/m-Å°C	17.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	31.0 Åµm/m-Å°C	17.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	36.0 Åµm/m-Å°C	20.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	36.6 Åµm/m-Å°C	20.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	182 Å°C	360 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	181 Å°C	358 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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