

SABIC Innovative Plastics LNP THERMOCOMP GF006 PSU (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

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

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Water Absorption	0.26 %	0.26 %	ISO 62-1
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	118 MPa	17100 psi	5 mm/min; ISO 527
Elongation at Break	1.6 %	1.6 %	5 mm/min; ISO 527
	2.2 %	2.2 %	
Tensile Modulus	10.0 GPa	1450 ksi	1 mm/min; ISO 527
Flexural Yield Strength	165 MPa	23900 psi	2 mm/min; ISO 178
Flexural Modulus	8.90 GPa	1290 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C	11.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	59.0 Åµm/m-Å°C	32.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	184 Å°C	363 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Deflection Temperature at 1.8 MPa Thermal Properties (104 psi)	182 Å°C Metric	360 Å°F English	Flatw 80*10*4 sp=64mm; ISO 75/Åf Comments
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	UL 94 by SABIC-IP

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