

SABIC Innovative Plastics LNP Thermocomp GF008 PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

LNP* Thermocomp* GF008 is a compound based on Polysulfone resin containing Glass Fiber. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-GF008-PSU.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D 792
	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	108 MPa	15700 psi	ASTM D 638
	113 MPa	16400 psi	ISO 527
Elongation at Break	1.4 %	1.4 %	ASTM D 638
	1.4 %	1.4 %	ISO 527
Tensile Modulus	11.65 GPa	1690 ksi	50 mm/min; ASTM D 638
Flexural Strength	158 MPa	22900 psi	ASTM D 790
	164 MPa	23800 psi	ISO 178
Flexural Modulus	9.90 GPa	1440 ksi	ISO 178
	11.7 GPa	1700 ksi	ASTM D 790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D 256

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English	Comments
Izod Impact, Unnotched	3.79 J/cm @Temperature 23.0 °C	7.10 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	9.00 kJ/m ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m ² @Temperature 23.0 °C	11.9 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	176 °C @Thickness 3.20 mm	349 °F @Thickness 0.126 in	unannealed; ASTM D 648

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