

LNP Thermocomp® GF-1006 Polysulfone, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Forms: Pellets Processing Method: Injection Molding Information provided by LNP, a GE Plastics Company. This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-Thermocomp-GF-1006-Polysulfone-Glass-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	Method A; ASTM D792
Water Absorption	0.20 %	0.20 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	104 MPa	15100 psi	ASTM D638
Tensile Strength, Yield	104 MPa	15100 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Tensile Modulus	8.83 GPa	1280 ksi	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched (ISO)	7.30 kJ/m ²	3.47 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	27.2 kJ/m ²	12.9 ft-lb/in ²	ISO 180
Falling Dart Impact	8.90 J	6.56 ft-lb	ASTM D3763
Impact Test	2.96 J	2.18 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	181 °C	358 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	360 - 371 °C	680 - 700 °F	
Mold Temperature	149 °C	300 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.050 %	0.050 %	Suggested
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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