

LNP Thermocomp® LF-1006 EM Polyetheretherketone, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Features: Good Moldability
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-LF-1006-EM-Polyetheretherketone-Glass-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	Method A; ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	181 MPa	26300 psi	ASTM D638
Tensile Strength, Yield	181 MPa	26300 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Tensile Modulus	13.0 GPa	1890 ksi	ASTM D638
Flexural Strength	262 MPa	38000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm @Thickness 3.18 mm	2.19 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	9.13 J/cm @Thickness 3.18 mm	17.1 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	11.2 kJ/m ²	5.33 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	58.9 kJ/m ²	28.0 ft-lb/in ²	ISO 180
Falling Dart Impact	8.10 J	5.97 ft-lb	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 µm/m-°C	11.1 µin/in-°F	TMA; ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	36.0 µm/m-°C	20.0 µin/in-°F	

CTE, linear, Transverse to Flow Thermal Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	TMA: ASTM E831 Comments
Deflection Temperature at 0.46 MPa (66 psi)	299 °C	570 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	299 °C	570 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	379 - 388 °C	714 - 730 °F	
Mold Temperature	135 - 163 °C	275 - 325 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.10 %	0.10 %	Suggested
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	

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