

LNP Thermocomp® EC-1006 Polyetherimide, Carbon Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), Carbon 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-EC-1006-Polyetherimide-Carbon-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	Method A; ASTM D792
Water Absorption	0.10 %	0.10 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	197 MPa	28600 psi	ASTM D638
Tensile Strength, Yield	197 MPa	28600 psi	ASTM D638
Elongation at Break	1.3 %	1.3 %	ASTM D638
Elongation at Yield	1.3 %	1.3 %	ASTM D638
Tensile Modulus	19.4 GPa	2810 ksi	ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	18.2 GPa	2640 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Thickness 3.18 mm	0.800 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	3.74 J/cm @Thickness 3.18 mm	7.01 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	5.20 kJ/m ²	2.47 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	26.3 kJ/m ²	12.5 ft-lb/in ²	ISO 180
Falling Dart Impact	7.80 J	5.75 ft-lb	ASTM D3763
Impact Test	2.47 J	1.82 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Dynamic	0.52	0.52	40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894
Coefficient of Friction, Static	0.48	0.48	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894
K (wear) Factor	151 x 10 ⁻⁸ mm ³ /N-M	75.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40psi, 50ft/min; tested in accordance with LNP WI-0687

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	218 °C	424 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	360 - 366 °C	680 - 691 °F	
Mold Temperature	121 - 149 °C	250 - 300 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.020 %	0.020 %	Suggested
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	

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