

## LNP Thermocomp® EC-1006 EM 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-EM-Polyetherimide-Carbon-Fiber-Reinforcement-nbspdiscontinued.php](http://www.lookpolymers.com/polymer_LNP-Thermocomp-EC-1006-EM-Polyetherimide-Carbon-Fiber-Reinforcement-nbspdiscontinued.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 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	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	230 MPa	33400 psi	ASTM D638
Tensile Strength, Yield	230 MPa	33400 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Elongation at Yield	1.5 %	1.5 %	ASTM D638
Tensile Modulus	23.3 GPa	3380 ksi	ASTM D638
Flexural Strength	310 MPa	45000 psi	ASTM D790
Flexural Modulus	19.2 GPa	2780 ksi	ASTM D790
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 180
Izod Impact, Unnotched (ISO)	34.7 kJ/m <sup>2</sup>	16.5 ft-lb/in <sup>2</sup>	ISO 180
Falling Dart Impact	6.30 J	4.65 ft-lb	ASTM D3763
Coefficient of Friction, Dynamic	0.52	0.52	vs. Steel - @ 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	149 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	74.0 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	40psi, 50ft/min; tested in accordance with LNP WI-0687

Mechanical Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	206 °C	403 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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