

## LNP Thermocomp® EF-1006 BK8-114 Polyetherimide, Glass Fiber Reinforcement (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### 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-EF-1006-BK8-114-Polyetherimide-Glass-Fiber-Reinforcement-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_LNP-Thermocomp-EF-1006-BK8-114-Polyetherimide-Glass-Fiber-Reinforcement-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	Method A; ASTM D792
Water Absorption	0.10 %	0.10 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 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	188 MPa	27300 psi	ASTM D638
Tensile Strength, Yield	188 MPa	27300 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
Elongation at Yield	2.4 %	2.4 %	ASTM D638
Tensile Modulus	11.4 GPa	1650 ksi	ASTM D638
Flexural Strength	269 MPa	39000 psi	ASTM D790
Flexural Modulus	11.4 GPa	1650 ksi	ASTM D790
Izod Impact, Notched (ISO)	10.5 kJ/m <sup>2</sup>	5.00 ft-lb/in <sup>2</sup>	ISO 180
Izod Impact, Unnotched (ISO)	48.7 kJ/m <sup>2</sup>	23.2 ft-lb/in <sup>2</sup>	ISO 180
Falling Dart Impact	12.4 J	9.15 ft-lb	ASTM D3763
Impact Test	2.64 J	1.95 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2
Coefficient of Friction, Dynamic	0.55	0.55	vs. Steel - @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894
Coefficient of Friction, Static	0.50	0.50	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894

Mechanical Properties	Metric	English	Comments
K (wear) Factor	$262 \times 10^{-8} \text{ mm}^2/\text{N-M}$	$10 \text{ in}^2 \cdot \text{min}/\text{ft-lb-in}$	90 min @ 100 min; tested in accordance with LNP WI-U687

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	399 °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	

Descriptive Properties	Value	Comments
Color	Black	

## Contact Songhan Plastic Technology Co.,Ltd.

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