

LNP Thermocomp® LC-1006 Polyetheretherketone, Carbon Fiber Reinforcement (discontinued **)

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

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-LC-1006-Polyetheretherketone-Carbon-Fiber-Reinforcement-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	Method A; ASTM D792
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	225 MPa	32600 psi	ASTM D638
Tensile Strength, Yield	225 MPa	32600 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Elongation at Yield	1.4 %	1.4 %	ASTM D638
Tensile Modulus	30.8 GPa	4470 ksi	ASTM D638
Flexural Strength	324 MPa	47000 psi	ASTM D790
Flexural Modulus	20.2 GPa	2930 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @Thickness 3.18 mm	1.40 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	6.09 J/cm @Thickness 3.18 mm	11.4 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	7.80 kJ/m ²	3.71 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	42.6 kJ/m ²	20.3 ft-lb/in ²	ISO 180
Falling Dart Impact	12.5 J	9.22 ft-lb	ASTM D3763
Coefficient of Friction, Dynamic	0.30	0.30	vs. Steel - @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894

Mechanical Properties	Metric	English	Comments
<i>Mechanical Properties, Static</i>			vs. Steel @ 40 psi, tested in accordance with LNP WI-0687, ASTM D1894
K (wear) Factor	111 x 10 ⁻⁸ mm ³ /N-M	55.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40psi, 50ft/min; tested in accordance with LNP WI-0687

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 μm/m-°C	6.11 μin/in-°F	TMA; ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	29.0 μm/m-°C	16.1 μin/in-°F	TMA; ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
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
Flammability, UL94	V-0	V-0	
	@Thickness 0.770 mm	@Thickness 0.0303 in	

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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