

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

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

Material Notes:

Features: Good MoldabilityForms: PelletsProcessing Method: Injection MoldingInformation 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-EM-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	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	228 MPa	33100 psi	ASTM D638
Tensile Strength, Yield	228 MPa	33100 psi	ASTM D638
Elongation at Break	1.3 %	1.3 %	ASTM D638
Elongation at Yield	1.3 %	1.3 %	ASTM D638
Tensile Modulus	25.0 GPa	3630 ksi	ASTM D638
Flexural Strength	338 MPa	49000 psi	ASTM D790
Flexural Modulus	21.6 GPa	3130 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Thickness 3.18 mm	1.20 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	4.32 J/cm @Thickness 3.18 mm	8.09 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	37.4 kJ/m ²	17.8 ft-lb/in ²	ISO 180
Falling Dart Impact	7.62 J	5.62 ft-lb	ASTM D3763
Impact Test	4.57 J	3.37 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	32.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	17.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	300 $^{\circ}\text{C}$	572 $^{\circ}\text{F}$	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	379 - 388 $^{\circ}\text{C}$	714 - 730 $^{\circ}\text{F}$	
Mold Temperature	135 - 163 $^{\circ}\text{C}$	275 - 325 $^{\circ}\text{F}$	
Drying Temperature	121 - 149 $^{\circ}\text{C}$	250 - 300 $^{\circ}\text{F}$	
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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