

SABIC Innovative Plastics LNP Thermocomp LC006E PEEK

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

LNP THERMOCOMP* LC006E is a compound based on Polyetheretherketone resin containing Carbon Fiber. Added features of this material include: Easy Molding. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-LC006E-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
	1.41 g/cc	0.0509 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23°C / 50% RH; ISO 62
	0.060 % @Time 86400 sec	0.060 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0011 cm/cm	0.0011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0077 cm/cm	0.0077 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	227 MPa	32900 psi	ASTM D 638
	228 MPa	33100 psi	ISO 527
Elongation at Break	1.0 %	1.0 %	ISO 527
	1.3 %	1.3 %	ASTM D 638
Tensile Modulus	24.56 GPa	3562 ksi	1 mm/min; ISO 527
	24.95 GPa	3619 ksi	50 mm/min; ASTM D 638
Flexural Strength	340 MPa	49300 psi	ASTM D 790
	340 MPa	49300 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	21.64 GPa	3140 ksi	ASTM D 790
	21.65 GPa	3140 ksi	ISO 178
Izod Impact, Notched	0.640 J/cm @Temperature 23.0 Â°C	1.20 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.32 J/cm @Temperature 23.0 Â°C	8.09 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	37.0 kJ/mÂ² @Temperature 23.0 Â°C	17.6 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603
	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	10.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	18.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	10.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	34.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	18.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	34.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	18.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	300 Â°C @Thickness 3.20 mm	572 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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