

SABIC Innovative Plastics LNP THERMOCOMP LC008E PEEK

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

Material Notes:

LNP* THERMOCOMP* LC008E is a compound based on Polyetheretherketone resin containing 40% Carbon Fiber. Added features of this material include: Easy Molding, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LC008E-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.00050 cm/cm	0.00050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0073 cm/cm	0.0073 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	240 MPa	34800 psi	ASTM D638
	242 MPa	35100 psi	ISO 527
Tensile Strength, Yield	240 MPa	34800 psi	ASTM D638
	242 MPa	35100 psi	ISO 527
Elongation at Break	1.3 %	1.3 %	ASTM D638
	1.3 %	1.3 %	ISO 527
Elongation at Yield	1.3 %	1.3 %	ASTM D638
	1.3 %	1.3 %	ISO 527
Tensile Modulus	30.52 GPa	4427 ksi	1 mm/min; ISO 527
	33.09 GPa	4799 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	352 MPa Metric	51100 psi English	ISO 178 Comments
	365 MPa	52900 psi	ASTM D790
Flexural Modulus	26.88 GPa	3899 ksi	ASTM D790
	27.5 GPa	3990 ksi	ISO 178
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.04 J/cm	13.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	27.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	7.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	7.20 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	338 $\text{Å}^\circ\text{C}$	640 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	326 $\text{Å}^\circ\text{C}$	619 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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