

SABIC Innovative Plastics LNP THERMOCOMP LF006E PEEK

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

Material Notes:

LNP* THERMOCOMP* LF006E is a compound based on Polyetheretherketone resin containing 30% Glass Fiber. Added features of this material include: Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LF006E-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ASTM D792
	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Moisture Absorption	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	181 MPa	26300 psi	ASTM D638
	187 MPa	27100 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ASTM D638
	2.0 %	2.0 %	ISO 527
Tensile Modulus	12.9 GPa	1870 ksi	1 mm/min; ISO 527
	13.03 GPa	1890 ksi	5 mm/min; ASTM D638
Flexural Strength	262 MPa	38000 psi	ASTM D790
	278 MPa	40300 psi	ISO 178
Flexural Modulus	11.03 GPa	1600 ksi	ASTM D790
	12.5 GPa	1810 ksi	ISO 178
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.13 J/cm	17.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	58.0 kJ/m ²	27.6 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

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	English $\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
	20.5 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	11.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
CTE, linear, Transverse to Flow	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
	36.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	20.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	36.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	20.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	36.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	20.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2

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