

SABIC Innovative Plastics LNP THERMOCOMP LF006 PEEK

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

Material Notes:

LNP THERMOCOMP* LF006 is a compound based on Polyetheretherketone resin containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LF006-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ISO 1183
	1.537 g/cc	0.05553 lb/in ³	ASTM D792
Moisture Absorption	0.0800 %	0.0800 %	23 [°] C / 50% RH; ISO 62
	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	175 MPa	25400 psi	ISO 527
	176 MPa	25500 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ISO 527
	2.0 %	2.0 %	ASTM D638
Tensile Modulus	13.1 GPa	1900 ksi	1 mm/min; ISO 527
	13.23 GPa	1919 ksi	5 mm/min; ASTM D638
Flexural Strength	245 MPa	35500 psi	ASTM D790
	263 MPa	38100 psi	ISO 178
Flexural Modulus	10.75 GPa	1559 ksi	ASTM D790
	12.7 GPa	1840 ksi	ISO 178
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.75 J/cm	16.4 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)	57.0 kJ/m ²	27.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J	9.59 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	9.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	17.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	9.44 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	46.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	26.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	48.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	26.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	$\geq 240 \text{ Å}^\circ\text{C}$	$\geq 464 \text{ Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	$\geq 298 \text{ Å}^\circ\text{C}$	$\geq 568 \text{ Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 240 \text{ Å}^\circ\text{C}$	$\geq 464 \text{ Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	$\geq 298 \text{ Å}^\circ\text{C}$	$\geq 568 \text{ Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 0.780 mm	@Thickness 0.0307 in	

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