

SABIC Innovative Plastics LNP THERMOCOMP LF008 PEEK

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

Material Notes:

LNP* THERMOCOMP* LF008 is a compound based on Polyetheretherketone resin containing 40% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LF008-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ASTM D792
	1.61 g/cc	0.0582 lb/in ³	ISO 1183
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	154 MPa	22300 psi	ASTM D638
	155 MPa	22500 psi	ISO 527
Tensile Strength, Yield	156 MPa	22600 psi	ISO 527
Elongation at Break	2.4 %	2.4 %	ASTM D638
	2.4 %	2.4 %	ISO 527
Elongation at Yield	2.2 %	2.2 %	ISO 527
	2.4 %	2.4 %	ASTM D638
Tensile Modulus	12.81 GPa	1858 ksi	1 mm/min; ISO 527
	13.78 GPa	1999 ksi	5 mm/min; ASTM D638
Flexural Strength	234 MPa	33900 psi	ASTM D790
	240 MPa	34800 psi	ISO 178
Flexural Modulus	9.65 GPa	1400 ksi	ASTM D790
	10.4 GPa	1510 ksi	ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.11 J/cm	15.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A

Izod Impact Unnotched (ISO) Mechanical Properties	53.0 kJ/m ² Metric	25.2 ft-lb/in ² English	80-10-4 ISO 180/1U Comments
Dart Drop, Total Energy	13.0 J	9.59 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	3.60 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	2.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	4.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	2.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	1.80 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	1.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	2.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	1.11 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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 1.8 MPa (264 psi)	261 $\text{Å}^\circ\text{C}$	502 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

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