

SABIC Innovative Plastics LNP THERMOCOMP LF003 PEEK (Asia Pacific)

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

Material Notes:

LNP* Thermocomp* LF003 is a compound based on Polyetheretherketone resin containing Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LF003-PEEK-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
	1.39 g/cc	0.0502 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0079 cm/cm	0.0079 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.010 cm/cm	0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	ISO 527
	136 MPa	19700 psi	ASTM D638
Tensile Strength, Yield	125 MPa	18100 psi	ISO 527
	136 MPa	19700 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ISO 527
	3.1 %	3.1 %	ASTM D638
Elongation at Yield	2.3 %	2.3 %	ISO 527
	2.9 %	2.9 %	ASTM D638
Tensile Modulus	6.93 GPa	1010 ksi	1 mm/min; ISO 527
	7.446 GPa	1080 ksi	50 mm/min; ASTM D638
Flexural Strength	199 MPa	28900 psi	ASTM D790

Mechanical Properties	700 MPa Metric	10000 psi English	ISO 178 Comments
Flexural Modulus	6.274 GPa	910.0 ksi	ASTM D790
	7.00 GPa	1020 ksi	ISO 178
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.54 J/cm	16.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	54.0 kJ/m ²	25.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J	10.3 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	48.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	26.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	48.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	27.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	30.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	17.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	31.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	17.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	325 $\text{Å}^\circ\text{C}$	617 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	328 $\text{Å}^\circ\text{C}$	622 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	244 $\text{Å}^\circ\text{C}$	471 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	258 $\text{Å}^\circ\text{C}$	496 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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