

SABIC Innovative Plastics LNP THERMOCOMP LC006 PEEK

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

Material Notes:

LNP THERMOCOMP* LC006 is a compound based on Polyetheretherketone resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LC006-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
	1.413 g/cc	0.05105 lb/in ³	ASTM D792
Moisture Absorption	0.0700 %	0.0700 %	23 ^o C / 50% RH; ISO 62
	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0012 cm/cm	0.0012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	225 MPa	32600 psi	ASTM D638
	230 MPa	33400 psi	ISO 527
Elongation at Break	1.5 %	1.5 %	ASTM D638
	1.5 %	1.5 %	ISO 527
Tensile Modulus	24.7 GPa	3580 ksi	1 mm/min; ISO 527
	30.75 GPa	4460 ksi	50 mm/min; ASTM D638
Flexural Strength	325 MPa	47100 psi	ASTM D790
	346 MPa	50200 psi	ISO 178

Flexural Modulus Mechanical Properties	20.2 GPa Metric	2930 ksi English	ASTM D790 Comments
	24.3 GPa	3520 ksi	ISO 178
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.08 J/cm	11.4 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)	42.0 kJ/m ²	20.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J	8.85 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.30	0.30	ASTM D3702 Modified
Coefficient of Friction, Static	0.32	0.32	ASTM D3702 Modified
K (wear) Factor	111 x 10 ⁻⁸ mm ³ /N-M	55.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 Åµm/m-Å°C	6.67 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	12.1 Åµm/m-Å°C	6.72 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	29.3 Åµm/m-Å°C	16.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	29.3 Åµm/m-Å°C	16.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	>= 240 Å°C	>= 464 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	>= 298 Å°C	>= 568 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	>= 240 Å°C	>= 464 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Åf
	>= 298 Å°C	>= 568 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
	V-0	V-0	

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