

SABIC Innovative Plastics LNP THERMOCOMP LF004E PEEK (Asia Pacific)

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

Material Notes:

LNP* Thermocomp* LF004E is a compound based on Polyetheretherketone resin containing 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-LF004E-PEEK-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0044 cm/cm	0.0044 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0058 cm/cm	0.0058 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	ISO 527
	126 MPa	18300 psi	ASTM D638
Tensile Strength, Yield	114 MPa	16500 psi	ISO 527
	126 MPa	18300 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ISO 527
	2.2 %	2.2 %	ASTM D638
Elongation at Yield	1.8 %	1.8 %	ISO 527
	2.2 %	2.2 %	ASTM D638
Tensile Modulus	7.58 GPa	1100 ksi	50 mm/min; ASTM D638
	7.63 GPa	1110 ksi	1 mm/min; ISO 527

Flexural Strength Mechanical Properties	207 MPa Metric	30000 psi English	ISO 178 Comments
	213 MPa	30900 psi	ASTM D790
Flexural Modulus	6.89 GPa	999 ksi	ASTM D790
	7.00 GPa	1020 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.23 J/cm	9.80 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ²	14.3 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	45.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	33.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	18.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	34.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	19.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	329 Â°C	624 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	332 Â°C @Thickness 3.20 mm	630 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	261 Â°C	502 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	286 Â°C @Thickness 3.20 mm	547 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China