

SABIC Innovative Plastics LNP THERMOCOMP LF004E PEEK

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

Material Notes:

LNP* THERMOCOMP* LF004E is a compound based on Polyetheretherketone resin containing 20% 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.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.100 %	0.100 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0071 cm/cm @Time 86400 sec	0.0071 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.012 cm/cm @Time 86400 sec	0.012 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	124 MPa	18000 psi	5 mm/min; ISO 527
	147 MPa	21300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.7 %	1.7 %	5 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.62 GPa	1250 ksi	1 mm/min; ISO 527
	8.73 GPa	1270 ksi	5 mm/min; ASTM D638
Flexural Strength	222 MPa	32200 psi	ISO 178
	228 MPa	33100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.72 GPa	1120 ksi	2 mm/min; ISO 178
	8.09 GPa	1170 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	4.84 J/cm Metric	9.07 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	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	28.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	15.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	45.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	25.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	335 Â°C	635 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	337 Â°C @Thickness 3.20 mm	639 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	305 Â°C	581 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	320 Â°C @Thickness 3.20 mm	608 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