

SABIC Innovative Plastics LNP THERMOCOMP LCF62E PEEK

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

Material Notes:

LNP* THERMOCOMP* LCF62E is a compound based on Polyetheretherketone resin containing 10% Carbon, 30% Glass Fiber fillers. Added features of this material includes: Easy Molding, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LCF62E-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D792
Density	1.57 g/cc	0.0567 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00090 - 0.020 cm/cm	0.00090 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	196 MPa	28400 psi	5 mm/min; ISO 527
	203 MPa	29400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.70 %	0.70 %	5 mm/min; ISO 527
	0.80 %	0.80 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	41.09 GPa	5960 ksi	1 mm/min; ISO 527
	62.98 GPa	9134 ksi	50 mm/min; ASTM D638
Flexural Strength	296 MPa	42900 psi	1.3 mm/min, 50 mm span; ASTM D790
	391 MPa	56700 psi	ISO 178
Flexural Modulus	17.34 GPa	2515 ksi	1.3 mm/min, 50 mm span; ASTM D790
	36.49 GPa	5292 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	7.11 J/cm Metric	13.3 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	47.0 kJ/m ²	22.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	17.0 J @Temperature 23.0 Â°C	12.5 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	290 Â°C	554 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	290 Â°C @Thickness 3.20 mm	554 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	290 Â°C	554 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	290 Â°C @Thickness 3.20 mm	554 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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