

SABIC Innovative Plastics LNP THERMOCOMP LC003E PEEK

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

Material Notes:

LNP THERMOCOMP* LC003E is a compound based on Polyetheretherketone resin containing 15% Carbon Fiber. Added features of this material include: Easy Molding, Electrically Conductive

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LC003E-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
	0.130 %	0.130 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0028 - 0.0031 cm/cm	0.0028 - 0.0031 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0051 - 0.0058 cm/cm	0.0051 - 0.0058 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	153 MPa	22200 psi	ASTM D638
	163 MPa	23600 psi	ISO 527
Elongation at Break	1.8 %	1.8 %	ASTM D638
	1.8 %	1.8 %	ISO 527
Tensile Modulus	10.52 GPa	1526 ksi	1 mm/min; ISO 527
	11.51 GPa	1669 ksi	50 mm/min; ASTM D638
Flexural Strength	259 MPa	37600 psi	ASTM D790
	263 MPa	38100 psi	ISO 178

Flexural Modulus Mechanical Properties	9.51 GPa Metric	1380 ksi English	ASTM D790 Comments
	9.85 GPa	1430 ksi	ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.00 J/cm	7.49 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)	29.0 kJ/mÂ²	13.8 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J	2.95 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	51.9 Âµm/m-Â°C	28.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	52.0 Âµm/m-Â°C	28.9 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	53.6 Âµm/m-Â°C	29.8 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	53.6 Âµm/m-Â°C	29.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	298 Â°C	568 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	270 Â°C	518 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 - 1.00e+7 ohm	1000 - 1.00e+7 ohm	ASTM D257

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