

## SABIC Innovative Plastics LNP THERMOCOMP EC006E PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

LNP THERMOCOMP\* EC006E is a compound based on Polyetherimide resin containing 30% 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-EC006E-PEI.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EC006E-PEI.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	ISO 1183
	1.394 g/cc	0.05036 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.170 %	0.170 %	50% RH, 24 hrs; ASTM D570
	0.250 %	0.250 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 cm/cm	0.0010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0051 cm/cm	0.0051 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	215 MPa	31200 psi	ISO 527
	230 MPa	33400 psi	ASTM D638
Elongation at Break	1.3 %	1.3 %	ISO 527
	1.5 %	1.5 %	ASTM D638
Tensile Modulus	18.47 GPa	2679 ksi	1 mm/min; ISO 527
	23.3 GPa	3380 ksi	50 mm/min; ASTM D638
Flexural Strength	306 MPa	44400 psi	ISO 178
	314 MPa	45500 psi	ASTM D790

Flexural Modulus Mechanical Properties	19.16 GPa Metric	2779 ksi English	ASTM D790 Comments
	20.8 GPa	3020 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/m <sup>2</sup>	16.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.52	0.52	ASTM D3702 Modified
Coefficient of Friction, Static	0.48	0.48	ASTM D3702 Modified
K (wear) Factor	151 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	75.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	208 °C	406 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	206 °C @Thickness 3.20 mm	403 °F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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