

## SABIC Innovative Plastics LNP THERMOCOMP EF006E PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

LNP THERMOCOMP® EF006E is a compound based on Polyetherimide resin containing 30% 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-EF006E-PEI.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EF006E-PEI.php)

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in <sup>3</sup>	ASTM D792
	1.53 g/cc	0.0553 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	169 MPa	24500 psi	5 mm/min; ISO 527
	174 MPa	25200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	10.96 GPa	1590 ksi	1 mm/min; ISO 527
	11.54 GPa	1674 ksi	50 mm/min; ASTM D638
Flexural Strength	228 MPa	33100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	231 MPa	33500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.16 GPa	1474 ksi	2 mm/min; ISO 178
	10.6 GPa	1540 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.680 J/cm	1.27 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.30 J/cm	9.93 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	13.0 J	9.59 ft-lb	ASTM D3763

Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	Comments
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 Âµm/m-Â°C	16.1 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	31.9 Âµm/m-Â°C	17.7 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	208 Â°C	406 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	207 Â°C	405 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	203 Â°C	397 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	203 Â°C	397 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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