

SABIC Innovative Plastics LNP THERMOCOMP EC006 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP THERMOCOMP* EC006 is a compound based on Polyetherimide resin containing Carbon Fiber. Added features of this material include:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EC006-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
	1.388 g/cc	0.05014 lb/in ³	ASTM D792
Moisture Absorption	0.190 %	0.190 %	50% RH, 24 hrs; ASTM D570
	0.280 %	0.280 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	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	0.0039 cm/cm	0.0039 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	183 MPa	26500 psi	ISO 527
	196 MPa	28400 psi	ASTM D638
Elongation at Break	1.1 %	1.1 %	ISO 527
	1.3 %	1.3 %	ASTM D638
Tensile Modulus	19.44 GPa	2820 ksi	50 mm/min; ASTM D638
	20.87 GPa	3027 ksi	1 mm/min; ISO 527
Flexural Strength	269 MPa	39000 psi	ISO 178
	280 MPa	40600 psi	ASTM D790

Flexural Modulus Mechanical Properties	17.93 GPa Metric	2601 ksi English	ISO 178 Comments
	18.17 GPa	2635 ksi	ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.73 J/cm	6.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/m ²	12.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
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 ⁻⁸ mm ³ /N-M	75.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	219 °C	426 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	217 °C @Thickness 3.20 mm	423 °F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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