

SABIC Innovative Plastics LNP THERMOCOMP EF006 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP THERMOCOMP® EF006 is a compound based on Polyetherimide resin containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EF006-PEI.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ISO 1183
	1.528 g/cc	0.05520 lb/in ³	ASTM D792
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0023 cm/cm	0.0023 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0049 cm/cm	0.0049 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	177 MPa	25700 psi	ISO 527
	188 MPa	27300 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ISO 527
	2.4 %	2.4 %	ASTM D638
Tensile Modulus	10.38 GPa	1505 ksi	1 mm/min; ISO 527
	11.44 GPa	1659 ksi	50 mm/min; ASTM D638
Flexural Strength	263 MPa	38100 psi	ISO 178
	270 MPa	39200 psi	ASTM D790
Flexural Modulus	11.37 GPa	1649 ksi	ASTM D790

Mechanical Properties	Metric ^{11.57 GPa}	English ^{1659 lbf}	Comments ^{ISO 178}
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.58 J/cm	14.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/m ²	22.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J	8.85 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	0.55	0.55	ASTM D3702 Modified
Coefficient of Friction, Static	0.50	0.50	ASTM D3702 Modified
K (wear) Factor	262 x 10 ⁻⁸ mm ³ /N-M	130 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	41.4 Åµm/m-Å°C	23.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	41.6 Åµm/m-Å°C	23.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	30.6 Åµm/m-Å°C	17.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	30.9 Åµm/m-Å°C	17.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	206 Å°C	403 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	203 Å°C	397 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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