

SABIC Innovative Plastics LNP THERMOCOMP EF004 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Thermocomp* EF004 is a compound based on Polyetherimide resin containing 20% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EF004-PEI.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Moisture Absorption	0.190 %	0.190 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	ASTM D638
	155 MPa	22500 psi	ISO 527
Elongation at Break	3.4 %	3.4 %	ASTM D638
	2.9 - 4.0 %	2.9 - 4.0 %	ISO 527
Tensile Modulus	6.80 GPa	986 ksi	1 mm/min; ISO 527
	7.18 GPa	1040 ksi	50 mm/min; ASTM D638
Flexural Strength	226 MPa	32800 psi	ISO 178
	240 MPa	34800 psi	ASTM D790
Flexural Modulus	6.80 GPa	986 ksi	ISO 178
	7.57 GPa	1100 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	6.94 J/cm	13.0 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)	47.0 kJ/m ²	22.4 ft-lb/in ²	80*10*4; ISO 180/1U
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	282 x 10 ⁻⁸ mm ³ /N-M	140 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Åµm/m-Å°C	13.9 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	60.0 Åµm/m-Å°C	33.3 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)	205 Å°C	401 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	207 Å°C @Thickness 3.20 mm	405 Å°F @Thickness 0.126 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China