

SABIC Innovative Plastics LNP THERMOCOMP EF006ER PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Thermocomp* EF006ER is a compound based on Polyetherimide resin containing 30% Glass Fiber. Added features of this material include: Easy Molding, Mold Release.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EF006ER-PEI.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
	1.52 g/cc	0.0549 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
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	
	0.0023 cm/cm	0.0023 in/in	ISO 294
	@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	
	0.0052 cm/cm	0.0052 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	154 MPa	22300 psi	ISO 527
	164 MPa	23800 psi	ASTM D638
Elongation at Break	7.2 %	7.2 %	ISO 527
	7.3 %	7.3 %	ASTM D638
Tensile Modulus	14.2 GPa	2060 ksi	1 mm/min; ISO 527
	22.06 GPa	3200 ksi	50 mm/min; ASTM D638
Flexural Strength	241 MPa	35000 psi	ASTM D790
	250 MPa	36300 psi	ISO 178
Flexural Modulus	10.34 GPa	1500 ksi	ASTM D790

Mechanical Properties	11.7 GPa Metric	1700 ksi English	ISO 178 Comments
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.46 J/cm	12.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	39.0 kJ/m ²	18.6 ft-lb/in ²	80*10*4; ISO 180/1U

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	
	42.0 Åµm/m-Å°C	23.3 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	23.0 Åµm/m-Å°C	12.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	23.4 Åµm/m-Å°C	13.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	207 Å°C	405 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	203 Å°C	397 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	201 Å°C	394 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	195 Å°C	383 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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