

SABIC Innovative Plastics LNP THERMOCOMP EC004XXC PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* THERMOCOMP* EC004XXC is a compound based on Polyetherimide resin containing 20% 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-EC004XXC-PEI.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	23 ^o C / 50% RH; ISO 62
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	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	170 MPa	24700 psi	ASTM D638
	175 MPa	25400 psi	
Elongation at Break	2.0 %	2.0 %	ASTM D638
	2.0 %	2.0 %	
Tensile Modulus	14.5 GPa	2100 ksi	1 mm/min; ISO 527
Flexural Strength	250 MPa	36300 psi	ISO 178
	259 MPa	37600 psi	
Flexural Modulus	12.0 GPa	1740 ksi	ISO 178
	12.33 GPa	1788 ksi	

Izod Impact, Notched Mechanical Properties	0.530 J/cm Metric	0.993 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	5.34 J/cm	10.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 Åµm/m-Å°C	5.56 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)	210 Å°C	410 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	212 Å°C	414 Å°F	
Flammability, UL94	@Thickness 3.20 mm	@Thickness 0.126 in	UL 94 by SABIC-IP
	V-0	V-0	
	@Thickness 0.500 mm	@Thickness 0.0197 in	

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

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