

SABIC Innovative Plastics LNP THERMOCOMP ECF62 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* THERMOCOMP* ECF62 is a compound based on Polyetherimide resin containing 30% Glass Fiber, 10% 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-ECF62-PEI.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm @Time 86400 sec	0.0010 - 0.0020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0030 - 0.0040 cm/cm @Time 86400 sec	0.0030 - 0.0040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	185 MPa	26800 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Tensile Modulus	17.92 GPa	2599 ksi	50 mm/min; ASTM D638
Flexural Strength	268 MPa	38900 psi	ASTM D790
Flexural Modulus	15.85 GPa	2299 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.85 J/cm	9.09 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	14.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	23.4 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	13.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	212 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	414 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 - 1.00e+11 ohm-cm	1.00e+10 - 1.00e+11 ohm-cm	ASTM D257

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