

SABIC Innovative Plastics LNP THERMOCOMP LC006EXQ PEEK

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

LNP* THERMOCOMP* LC006EXQ is a compound based on Polyetheretherketone containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive, Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LC006EXQ-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0015 - 0.0030 cm/cm	0.0015 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.014 cm/cm	0.0070 - 0.014 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	314 MPa	45500 psi	Type I, 5 mm/min; ASTM D638
	319 MPa	46300 psi	
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	1.7 %	1.7 %	
Tensile Modulus	31.7 GPa	4600 ksi	5 mm/min; ASTM D638
	35.32 GPa	5123 ksi	
Flexural Strength	457 MPa	66300 psi	ISO 178
	477 MPa	69200 psi	
Flexural Modulus	27.1 GPa	3930 ksi	1.3 mm/min, 50 mm span; ASTM D790
	27.23 GPa	3949 ksi	
Poissons Ratio	0.44	0.44	ASTM E 132
Shear Modulus	4.756 GPa	689.8 ksi	ASTM C273
Shear Strength	119 MPa	17300 psi	ASTM C273

Izod Impact, Notched Mechanical Properties	0.750 J/cm Metric	1.41 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	9.36 J/cm	17.5 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	5.00 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	2.78 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	30.0 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	16.7 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	332 Â°C @Thickness 3.20 mm	630 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 - 10000 ohm	1000 - 10000 ohm	ASTM D257

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