

SABIC Innovative Plastics LNP THERMOCOMP EC006PXQ PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* THERMOCOMP* EC006PXQ is a compound based on Polyetherimide containing 30% Carbon Fiber. Added features include:
Electrically Conductive, Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EC006PXQ-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.00030 - 0.0010 cm/cm	0.00030 - 0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0010 - 0.0060 cm/cm	0.0010 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	22 g/10 min	22 g/10 min	ASTM D1238
	@Load 6.70 kg, Temperature 380 Â°C	@Load 14.8 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	248 MPa	36000 psi	5 mm/min; ISO 527
	272 MPa	39500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.2 %	1.2 %	5 mm/min; ISO 527
	1.3 - 1.4 %	1.3 - 1.4 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	334 %	334 %	Flexural Strain, break, 2 mm/min; ISO 178
Tensile Modulus	27.56 GPa	3997 ksi	1 mm/min; ISO 527
	29.52 GPa	4282 ksi	5 mm/min; ASTM D638
Flexural Modulus	341 MPa	49500 psi	1.3 mm/min, 50 mm span; ASTM D790
Compressive Strength	23.06 GPa	3345 ksi	2 mm/min; ISO 178
	23.8 GPa	3450 ksi	1.3 mm/min, 50 mm span; ASTM D790
SABIC Method			

Mechanical Properties	244 MPa Metric	35400 psi English	Comments
Poissons Ratio	0.44	0.44	ASTM E 132
Shear Modulus	4.726 GPa	685.5 ksi	ASTM C273
Shear Strength	128 MPa	18600 psi	ASTM C273
Izod Impact, Notched	0.810 J/cm	1.52 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.81 J/cm	10.9 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	12.0 J @Temperature 23.0 Â°C	8.85 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.00 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	3.89 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	8.00 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	4.44 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C @Thickness 3.20 mm	383 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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

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