

SABIC Innovative Plastics LNP THERMOCOMP EC008APQ PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* THERMOCOMP* EC008APQ is a compound based on Polyetherimide containing 40% Carbon Fiber. Added features of this material include: Electrically Conductive, High Flow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EC008APQ-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Density	1.433 g/cc	0.05177 lb/in ³	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.00010 - 0.00050 cm/cm @Time 86400 sec	0.00010 - 0.00050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0010 - 0.0050 cm/cm @Time 86400 sec	0.0010 - 0.0050 in/in @Time 24.0 hour	ASTM D955
Melt Flow	40 g/10 min @Load 6.70 kg, Temperature 380 Å°C	40 g/10 min @Load 14.8 lb, Temperature 716 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	112	112	ASTM D785
Tensile Strength at Break	247 MPa	35800 psi	5 mm/min; ISO 527
	268 MPa	38900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.90 %	0.90 %	5 mm/min; ISO 527
	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	35.48 GPa	5146 ksi	1 mm/min; ISO 527
	39.42 GPa	5717 ksi	5 mm/min; ASTM D638
Flexural Strength	356 MPa	51600 psi	1.3 mm/min, 50 mm span; ASTM D790
	364 MPa	52800 psi	ISO 178
Flexural Modulus	30.56 GPa	4432 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric ^{Pa}	English ^l	Comments ^{1, 3 mm/min, 50 mm span; ASTM D790}
Compressive Strength	218 MPa	31600 psi	SABIC Method
Poissons Ratio	0.44	0.44	ASTM E 132
Shear Modulus	4.656 GPa	675.3 ksi	ASTM C273
Shear Strength	120 MPa	17400 psi	ASTM C273
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.60 J/cm	10.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/m ²	15.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	3.00 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	1.67 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	40.0 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	22.2 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	193 Â°C @Thickness 3.20 mm	379 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	4100 ohm-cm	4100 ohm-cm	ASTM D257
Surface Resistance	450 ohm	450 ohm	ASTM D257

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