

## SABIC Innovative Plastics LNP THERMOCOMP EC006APQ PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

LNP\* Thermocomp EC006APQ is a compound based on Polyetherimide containing 30% Carbon Fiber. Added features include: Electrically Conductive, High Flow.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EC006APQ-PEI.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EC006APQ-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 cm/cm @Time 86400 sec	0.00030 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0010 cm/cm @Time 86400 sec	0.0010 in/in @Time 24.0 hour	ASTM D955
Melt Flow	69 g/10 min @Load 6.70 kg, Temperature 380 Â°C	69 g/10 min @Load 14.8 lb, Temperature 716 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	252 MPa	36500 psi	5 mm/min; ISO 527
	281 MPa	40800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.1 %	1.1 %	5 mm/min; ISO 527
	1.1 - 1.3 %	1.1 - 1.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	29.25 GPa	4242 ksi	1 mm/min; ISO 527
	30.52 GPa	4427 ksi	5 mm/min; ASTM D638
Flexural Strength	332 MPa	48200 psi	ISO 178
	350 MPa	50800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	23.93 GPa	3471 ksi	2 mm/min; ISO 178
	26.3 GPa	3810 ksi	1.3 mm/min, 50 mm span; ASTM D790
Compressive Strength	231 MPa	33500 psi	SABIC Method

Poissons Ratio Mechanical Properties	0.44 Metric	0.44 English	ASTM E 132 Comments
Shear Modulus	4.726 GPa	685.5 ksi	ASTM C273
Shear Strength	128 MPa	18600 psi	ASTM C273
Izod Impact, Notched	0.820 J/cm	1.54 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.13 J/cm	13.4 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 150 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 302 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	5.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	2.78 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 150 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 302 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	195 $\text{Å}^\circ\text{C}$	383 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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

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