

LNPTM THERMOCOMPTM COMPOUND LCOOAPXQ

LC00APXQ

DESCRIPTION

LNP THERMOCOMP LC00APXQ compound is based on Polyetheretherketone (PEEK) resin containing 50% carbon fiber. Added features of this grade include: Exceptional Processing, Electrically Conductive.

GENERAL INFORMATION	
Features	Electrically Conductive, High Flow, Carbon fiber filled, High stiffness/Strength, High temperature resistance, No PFAS intentionally added
Fillers	Carbon Fiber
Polymer Types	Polyetheretherketone (PEEK)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components, Mobile Phone - Computer - Tablets
Industrial	Flortrical Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Specific Gravity	1.48	-	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.03	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.13 – 0.25	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.6 – 1.3	%	ASTM D955
Poisson's Ratio	0.45	-	ASTM E132
ELECTRICAL (1)			
Surface Resistivity	1.E+02 – 1.E+03	Ω	ASTM D257
INJECTION MOLDING (3)			
Drying Temperature	150	°C	
Drying Time	4 – 6	Hrs	
Front - Zone 3 Temperature	380 – 400	°C	
Middle - Zone 2 Temperature	380 – 400	°C	
Rear - Zone 1 Temperature	370 – 380	°C	
Mold Temperature	175 – 190	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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