

SUMIKASUPER® LCP E6007AS

Liquid Crystal Polymer
Sumitomo Chemical Co., Ltd.

Message:

SUMIKASUPER LCP is a thermotropic liquid crystalline polyester, showing the highest heat resistance among engineering plastics.
SUMIKASUPER LCP E6007AS is an antistatic grade that contains glass fiber reinforcement, an inorganic filler and an electroconductive component.

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Antistatic		
Features	Antistatic		
	Good Adhesion		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Heat Aging Resistance		
	Good Moldability		
	High Heat Resistance		
	High Temperature Strength		
	Low Viscosity		
Uses	Weldable		
	Appliances		
	Automotive Applications		
	Bobbins		
	Electrical/Electronic Applications		
	Engineering Parts		
	Food Containers		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.63	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow	0.31	%	
Across Flow	1.1	%	
Water Absorption (Saturation)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	121	MPa	ASTM D638
Tensile Elongation (Break)	6.8	%	ASTM D638
Flexural Modulus (23°C)	9800	MPa	ASTM D790

Flexural Strength (Yield, 23°C)	126	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (6.40 mm)	340	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	274	°C	ASTM D648
Additional Information	Nominal Value	Unit	Test Method
Soldering Resistance	300	°C	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	120 to 150	°C	
Drying Time	3.0	hr	
Suggested Max Regrind	30	%	
Rear Temperature	300 to 320	°C	
Middle Temperature	320 to 350	°C	
Front Temperature	340 to 370	°C	
Nozzle Temperature	340 to 370	°C	
Processing (Melt) Temp	350	°C	
Mold Temperature	70.0 to 160	°C	
Injection Pressure	78.0 to 157	MPa	
Injection Rate	Moderate-Fast		
Holding Pressure	20.0 to 39.0	MPa	
Back Pressure	0.980 to 4.90	MPa	
Screw Speed	50 to 100	rpm	

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