# 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.

Filter / Reinforcement   Glass Fiber     Additive   Antistatic     Features   Antistatic     Features   Antistatic     Good Adhesion   Good Adhesion     Good Chemical Resistance   Good Dimensional Stability     Good Moldability   Good Adhesion     High Resistance   Good Moldability     High Temperature Strength   Low Viscosity     Weldabie   Weldabie     Uses   Appliances     Automotive Applications   Bobbins     Electrical/Electronic Applications   Bobbins     Electrical/Electronic Applications   Forget Status     Forms   Pellets     Procesing Method   Injection Molding     Physical   Nominal Value   Unit   Test Mathod     Alcling Srinitage   Internal Method   Statu D792     Alcling Srinitage   Internal Method   Statu D792     Flow   0.31   %   Statu D570     Machanoptic (Staturation)   0.020   %   ASTM D570     Mechanical   Nominal Value   Unit   Test Method     Flow   0.202   %   ASTM	General Information				
Features   Antistatic     Good Adhesion   Good Adhesion     Good Chemical Resistance   Good Dimensional Stability     Good Meet Aging Resistance   Good Adhesion     Good Moleability   High Heat Resistance     High Temperature Strength   Like Viscosity     Weldable   Viscosity     Weldable   Appliances     Automotive Applications   Bobbins     Beletical/Electronic Applications   Bobbins     Electrical/Electronic Applications   Bobbins     Processing Method   Norminal Value     Processing Method   163     Specific Gravity   163     Narional Value   Vinit     Flow   0.20     National Stability   Specific Gravity     National Stability   Specific Gravity     National Stability   Specific Gravity     National Column   %     Flow   0.20     National Column   Mathethod     Flow   0.20   %     Mathetholication   10     Flow   0.20   %     Mathetholication   10     Fl	Filler / Reinforcement	Glass Fiber			
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Good Heat Aging Resistance   Good Moldability     High Heat Resistance   High Heat Resistance     High Temperature Strength   Low Viscosity     Low Viscosity   Weldable     Veldable   Appliances     Automotive Applications   Bobbins     Bobbins   Electrical/Electronic Applications     Bobbins   Electrical/Electronic Applications     Electrical/Electronic Applications   Bobbins     Electrical/Electronic Applications   Electrical/Electronic Applications     Forms   Pellets     Processing Method   Ioa     Igecion Molding   Intername     Specific Gravity   Io3   Qron³   ASTM D792     Igecion Sciences   Ioacon   Qron³   ASTM D792     Igeno Final   Qron³   ASTM D792   Intername     Image: Specific Gravity   Io3   Specific Gravity   Ioacon   Intername     Image: Specific Gravity   Io3   Specific Gravity   ASTM D792     Image: Specific Gravity   Io3   Specific Gravity   Ioacon     Image: Specific Gravity   Ioacon   Specific Gravity   Specific Gravity   ASTM D792		Good Chemical Resistance			
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Food Containers     Forms   Pellets     Processing Method   Injection Molding     Physical   Nominal Value   Unit   Test Method     Specific Gravity   1.63   g/cm³   ASTM D792     Molding Shrinkage   1.1   %   1     Flow   0.20   %   ASTM D570     Mechanical   Nominal Value   Molting Shrinkage   Linerral Method     Interral Method   0.20   %   ASTM D570     Mechanical   Nominal Value   Unit   Test Method     Interral Method   1.1   Mana   ASTM D570     Mechanical   Nominal Value   Unit   Test Method     Interral Method   Interral Method   Mana     Interral Method   Mana   ASTM D570     Interral Method   Interral Method   Mana     Interral Method   Mana   ASTM D570     Interral Method   Mana   ASTM D638     Interral Method   Mana   ASTM D638		Electrical/Electronic Applications			
Forms   Pellets     Processing Method   Injection Molding     Physical   Nominal Value   Unit   Test Method     Specific Gravity   1.63   g/cm³   ASTM D792     Molding Shrinkage   0.31   %   1     Flow   0.020   %   STM D570     Mater Absorption (Saturation)   0.020   %   ASTM D570     Tensile Strength (Yield)   121   MPa   Maran     Flow   121   MPa   ASTM D638		Engineering Parts			
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Tensile Elongation (Break) 6.8 % ASTM D638	Mechanical	Nominal Value	Unit	Test Method	
	Tensile Strength (Yield)	121	MPa	ASTM D638	
Flexural Modulus (23°C)9800MPaASTM D790	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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