SUMIKASUPER® LCP E6006LHF

Liquid Crystal Polymer

Sumitomo Chemical Co., Ltd.

Message:

SUMIKASUPER LCP is a thermotropic liquid crystalline polyester, showing the highest heat resistance among engineering plastics.

General Information			
UL YellowCard	E54705-100988619	E249884-100962025	
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability Low viscosity High temperature strength Weldable Good formability Good liquidity Good heat aging resistance Good adhesion Good chemical resistance Heat resistance, high		
Uses	Electrical/Electronic Applications Electrical appliances Engineering accessories Application in Automobile Field Food container		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.61	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.11	%	ASTM D955
Transverse flow	0.72	%	ASTM D955
Water Absorption (Saturation)	0.020	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	158	MPa	ASTM D638
Tensile Elongation (Break)	4.8	%	ASTM D638
Flexural Modulus	11200	MPa	ASTM D790
Flexural Strength	146	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Unnotched Izod Impact	380	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	272	°C	ASTM D648
Flammability	**Nominal Value**		**Test Method**
Flame Rating	V-0		UL 94
Additional Information			
Mold Shrinkage, Sumitomo Chemical Method, Machine Direction: 1.1 mils/inMold Shrinkage, Sumitomo Chemical Method, Transverse Direction: 7.2 mils/in			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120 - 150	°C	
Drying Time	3.0	hr	
Suggested Max Regrind	30	%	
Rear Temperature	300 - 320	°C	
Middle Temperature	320 - 350	°C	
Front Temperature	340 - 370	°C	
Nozzle Temperature	340 - 370	°C	
Mold Temperature	70.0 - 160	°C	
Injection Pressure	78.0 - 157	MPa	
Injection Rate	Moderate-Fast		
Holding Pressure	20.0 - 39.0	MPa	
Back Pressure	0.980 - 4.90	MPa	
Screw Speed	50 - 100	rpm	

Recommended distributors for this material

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WECHAT