

SUMIKASUPER® LCP E4205L

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	E54705-100988600	E249884-481485	
Filler / Reinforcement	Long Glass Fiber		
Features	Good Chemical Resistance		
	Good Wear Resistance		
	High Heat Resistance		
	High Rigidity		
	Low Viscosity		
Uses	Bobbins		
	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow	0.66	%	
Across Flow	1.7	%	
Water Absorption (Saturation)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	82.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus (23°C)	5600	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	85.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (6.40 mm)	310	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	305	°C	ASTM D648
Thermal Conductivity	0.41	W/m/K	JIS R2618
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Constant (1 MHz)	2.90		ASTM D150

Dissipation Factor (1 MHz)	0.013		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.300 mm, BK)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	130	°C	
Drying Time	4.0 to 24	hr	
Rear Temperature	330 to 350	°C	
Middle Temperature	350 to 370	°C	
Front Temperature	370 to 390	°C	
Nozzle Temperature	370 to 390	°C	
Processing (Melt) Temp	380	°C	
Mold Temperature	40.0 to 160	°C	
Injection Pressure	120 to 160	MPa	
Injection Rate	Moderate-Fast		
Holding Pressure	40.0 to 60.0	MPa	
Back Pressure	1.00 to 5.00	MPa	
Screw Speed	50 to 100	rpm	

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