

LONGLITE® LCP LCP-300 B5TL

Liquid Crystal Polymer

CCP Group

Message:

LCP-300/ LCP-270 is a high heat-resistance and anisotropic, Type I/ Type II grade Liquid Crystalline Polymer Compound
LCP-300/LCP-270 appears low viscosity and high fluidity while operating temperature is higher than its melting point.

General Information			
UL YellowCard	E59481-101327719	E59481-101328647	E59481-101886170
	E59481-101886171		
Filler / Reinforcement	Glass\Inorganic,50% Filler by Weight		
Features	High Flow		
	High Heat Resistance		
	Low Viscosity		
	Low Warpage		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.80	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	115	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.3	%	ISO 527-2
Flexural Modulus (23°C)	12500	MPa	ISO 178
Flexural Stress (23°C)	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	18	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	285	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (2.00 mm)	> 13	kV/mm	ASTM D149
Arc Resistance	150	sec	ASTM D495
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	4.0	hr	
Rear Temperature	330 to 350	°C	

Middle Temperature	350 to 370	°C
Front Temperature	360 to 390	°C
Nozzle Temperature	360 to 390	°C
Mold Temperature	40.0 to 120	°C
Injection Pressure	98.1 to 137	MPa
Holding Pressure	29.4 to 68.6	MPa
Back Pressure	0.800 to 1.00	MPa
Screw Speed	40 to 120	rpm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

