

LONGLITE® LCP LCP-300 N5TL

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	Natural Color		
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

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