LONGLITE® LCP LCP-300 N3G

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			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Flexibility High Flow High Heat Resistance Low Viscosity		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.61	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 23°C)	160	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	15500	MPa	ISO 178
Flexural Stress (23°C)	225	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength	22	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	295	°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

Recommended distributors for this material

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