

# LONGLITE® LCP 300 B4G

Liquid Crystal Polymer  
Chang Chun Plastics Co., Ltd. (CCP Group)

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## Technical Data

### Product Description

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

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">Chang Chun Plastics Co., Ltd. (CCP Group)</a> • <a href="#">LONGLITE® LCP</a>
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Features	• High Flow • Low Viscosity • High Heat Resistance • Low Warpage
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
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Density	1.71 g/cm <sup>3</sup>	ISO 1183
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Mechanical	Nominal Value Unit	Test Method
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Tensile Stress (Yield, 23°C)	145 MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5 %	ISO 527-2
Flexural Modulus (23°C)	14500 MPa	ISO 178
Flexural Stress (23°C)	210 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
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Notched Izod Impact Strength	20 kJ/m <sup>2</sup>	ISO 180
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Thermal	Nominal Value Unit	Test Method
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Deflection Temperature Under Load 1.8 MPa, Unannealed	300 °C	ISO 75-2/A
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Electrical	Nominal Value Unit	Test Method
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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
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Flame Rating	V-0	UL 94
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Injection	Nominal Value Unit
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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 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

## Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.



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## Where to Buy

### Supplier

#### Chang Chun Plastics Co., Ltd. (CCP Group)

Taipei, Taipei Taiwan

Telephone: +886-2-2518-7971

Web: <https://www.ccpgrp.com/>

### Distributor

#### Advanced Plastics, Inc

Telephone: 847-550-5556

Web: <http://www.apikolon.com/>

Availability: Mexico, North America, South America

#### Click Plastics AG

*Click Plastics AG is a Pan European distribution company. Contact Click Plastics for availability of individual products by country.*

Telephone: +49-6251-770-690-0

Web: <http://www.clickplastics.com>

Availability: Europe

#### PolySource

*PolySource is a North American resin and plastics distributor. Please feel to reach out to your Technical Sales Account Manager. <https://polysource.net/our-team/>*

Telephone: 816-540-5300

Web: <http://www.polysource.net/>

Availability: Canada, Mexico, United States

#### The Materials Group

Telephone: 616-863-6046

Web: <http://thematerialsgroup.com/>

Availability: North America

