

**KG300-50**  
**LCP KG300-50 Product Properties**

<b>Item</b>	<b>Test Method</b>	<b>Unit</b>	<b>KG300-50</b>
<b>Physical Properties</b>			
Density	ASTM D792	g/cm <sup>3</sup>	1.72
<b>Mechanical Properties</b>			
Tensile Strength	ASTM D638	MPa	110
Tensile Modulus	ASTM D638	MPa	13000
Elongation at Break	ASTM D638	%	2.5
Flexural Strength	ASTM D790	MPa	160
Flexural Modulus	ASTM D790	MPa	11500
Notched Impact Strength	ASTM D256	J/m	80
<b>Thermal Properties</b>			
HDT, 1.82 MPa	ASTM D648	°C	245
Flammability, 0.75 mm	UL-94		V-0
<b>Electrical Properties</b>			
Dielectric Constant 10 GHz	IPC-TM-650 2.5.5.13		3.7
Dielectric Loss Factors 10 GHz	IPC-TM-650 2.5.5.13		0.004
Volume Resistivity	ASTM D257	cm	10 <sup>13-16</sup>
Dielectric Strength, 2 mm	ASTM D149	KV	

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 021-67222266      021-51685255, 69210400  
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## Molding Condition

To avoid the blistering problem, the following molding parameters is recommended.

<b>材料干燥温度/时间</b>		<b>150 °C/4h</b>	<b>140 °C/6h</b>
<b>Dry Temperature/Time</b>		<b>150 °C/above 4h</b>	<b>or 140 °C/above 6h</b>
<b>模温</b>		<b>80 °C</b>	
<b>Mold Temperature</b>		<b>80 °C or Normal Temperature</b>	
<b>料管温度</b> <b>Cylinder</b> <b>Temperature</b>	<b>喷嘴温度</b> <b>Nozzle Temp.</b>	<b>350 °C</b>	<b>360 °C</b>
	<b>前部温度</b> <b>Front Temp.</b>	<b>350 °C</b>	<b>360 °C</b>
	<b>中部温度</b> <b>Middle Temp.</b>	<b>330 °C</b>	<b>340 °C</b>
	<b>后部温度</b> <b>Rear Temp.</b>	<b>310 °C</b>	<b>320 °C</b>

## Package

25KG

25KG net paper bag lined with aluminum foil.

## Storage

To avoid the wet and direct sun-light storage environment.

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**Component - Plastics**  
File Number: E301296

SHANGHAI PRET COMPOSITES CO LTD



**KG300(a)**

Liquid Crystal Polymer (LCP), pellets

(a) - The natural color (NC) for Grade KG300 is between white and beige.

Flammability	Value	Test Method
RTI Elec (0.75 to 0.83 mm)	130 °C	UL 746
RTI Imp (0.75 to 0.83 mm)	130 °C	UL 746
RTI Str (0.75 to 0.83 mm)	130 °C	UL 746

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