



液晶高分子材料 KG300-Q02 产品性能
LCP KG300-Q02 Product Properties

项目 Item	测试方法 Test Method	单位 Unit	KG300-Q02 低翘曲级
物理性能 Physical Properties			
密度 Density	ASTM D792	g/cm ³	1.68
矿纤含量 Mineral Fiber Content		%	40%
机械性能 Mechanical Properties			
拉伸强度 Tensile Strength	ASTM D638	MPa	120
拉伸模量 Tensile Modulus	ASTM D638	MPa	16000
断裂伸长率 Elongation at Break	ASTM D638	%	1.8
弯曲强度 Flexural Strength	ASTM D790	MPa	170
弯曲模量 Flexural Modulus	ASTM D790	MPa	13000
缺口冲击强度 Notched Impact Strength	ASTM D256	J/m	75
热性能 Thermal Properties			
热变形温度 HDT, 1.82 MPa, 1/4 inch, Method B	ASTM D648	°C	260
燃烧特性 Flammability, 0.75 mm	UL-94		V-0
电性能 Electrical Properties			
介电常数 Dielectric Constant (1 KHz)	ASTM D150		4.4
介电常数 Dielectric Constant (1 MHz)	ASTM D150		3.8
介电损耗因子 Dielectric Dissipation Factor (1 KHz)	ASTM D150		0.025
介电损耗因子 Dielectric Dissipation Factor (1 MHz)	ASTM D150		0.036
体积电阻率 Volume Resistivity	ASTM D257	Ω•cm	10 ¹³⁻¹⁶
击穿电压 Dielectric Strength, 2 mm	ASTM D149	KV	48.2
耐电弧性	S		130
耐电弧轨迹性	V		120

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射出成型参数
Molding Condition

为避免起泡问题，成型前建议如下：

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

材料干燥温度/时间 Dry Temperature/Time	150 °C/4h 以上或 140 °C/6h 以上 150 °C/above 4h or 140 °C/above 6h	
模温 Mold Temperature	80 °C 或常温 80 °C or Normal Temperature	
料管温度 Cylinder Temperature	喷嘴温度 Nozzle Temp.	345 °C—355 °C
	前部温度 Front Temp.	350 °C—360 °C
	中部温度 Middle Temp.	335 °C—340 °C
	后部温度 Rear Temp.	315 °C—320 °C

包装
Package

每包 25KG 内衬铝箔防潮纸袋
25KG net paper bag lined with aluminum foil.

储存
Storage

避免潮湿及太阳直射环境下储存
To avoid the wet and direct sun-light storage environment.

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Component - Plastics

File Number: E301296

SHANGHAI PRET COMPOSITES CO LTD
558 XINYE RD, QINGPU INDUSTRIAL ZONE, SHANGHAI 201707 CN



KG300(a)

Liquid Crystal Polymer (LCP), pellets

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

Flammability	Value	Test Method
Flame Rating (0.75 to 0.83 mm, NC, BK)	V-0	UL 94 IEC 60695-11-10, -20
Thermal	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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