



上海普利特化工新材料有限公司

Shanghai PRET Chemical New Materials Co., Ltd.

液晶高分子材料 KG300-Q08 产品性能 LCP KG300-Q08 Product Properties

项目 Item	测试方法 Test Method	单位 Unit	KG300-Q08 低翘曲高流动级
物理性能 Physical Properties			
密度 Density	ASTM D792	g/cm ³	1.68
机械性能 Mechanical Properties			
拉伸强度 Tensile Strength	ASTM D638	MPa	135
拉伸模量 Tensile Modulus	ASTM D638	MPa	15000
断裂伸长率 Elongation at Break	ASTM D638	%	1.8
弯曲强度 Flexural Strength	ASTM D790	MPa	190
弯曲模量 Flexural Modulus	ASTM D790	MPa	12000
缺口冲击强度 Notched Impact Strength	ASTM D256	J/m	90
热性能 Thermal Properties			
热变形温度 HDT, 1.82 MPa	ASTM D648	°C	255
燃烧特性 Flammability, 0.75 mm	UL-94		V-0
电性能 Electrical Properties			
体积电阻率 Volume Resistivity	ASTM D257	Ω·cm	10 ¹³⁻¹⁶
介电常数 Dielectric Constant (1 GHz)	IEC60250		3.76
介电损耗因子 Dielectric Dissipation Factor (1 GHz)	IEC60250		0.030
介电常数 Dielectric Constant (10 GHz)	SPDR		3.94
介电损耗因子 Dielectric Dissipation Factor (10 GHz)	SPDR		0.005
击穿电压 Dielectric Strength, 2mm	ASTM D149	KV	≥45

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除非另有特别说明，产品手册中的所有数据均来源于室温条件（23°C，50%相对湿度）下对标准试样进行的测试。这些数据为实验典型值，真实可靠，仅能作为参考性数据，不能认定为材料性能的最小值。

These technical data in the product brochures are typical data under specific test conditions and not intended for use as limiting specifications.



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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
喷嘴温度 Nozzle Temp.	345 °C—335 °C
料管温度 Cylinder Temperature	前部温度 Front Temp. 340 °C—330 °C
	中部温度 Middle Temp. 325 °C—315 °C
	后部温度 Rear Temp. 315 °C—305 °C

包装 Package

每包 25KG 内衬铝箔防潮袋

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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