



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-T30 产品性能
LCP KG300-T30 Product Properties

项目 Item	测试方法 Test Method	单位 Unit	KG300-T30 耐高温低翘曲
物理性能 Physical Properties			
密度 Density	ASTM D792	g/cm ³	1.62
熔融温度 Melt Point	ASTM D3418	°C	350
机械性能 Mechanical Properties			
拉伸强度 Tensile Strength	ASTM D638	MPa	140
拉伸模量 Tensile Modulus	ASTM D638	MPa	13500
断裂伸长率 Elongation at Break	ASTM D638	%	2.0
弯曲强度 Flexural Strength	ASTM D790	MPa	170
弯曲模量 Flexural Modulus	ASTM D790	MPa	11800
缺口冲击强度 Notched Impact Strength	ASTM D256	J/m	85
热性能 Thermal Properties			
热变形温度 HDT, 1.82 MPa	ASTM D648	°C	305
燃烧特性 Flammability, 0.75 mm	UL-94		V-0
电性能 Electrical Properties			
介电常数 Dielectric Constant (10 GHz)	IEC60250		4.0
介电损耗因子 Dielectric Loss Factor (10 GHz)	IEC60250		0.0015
体积电阻率 Volume Resistivity	ASTM D257	Ω•cm	10 ¹³⁻¹⁵
击穿电压 Dielectric Strength, 2 mm	ASTM D149	KV	≥48

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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.	360°C—365 °C	
料管温度 Cylinder Temperature	前部温度 Front Temp.	350 °C—355 °C
	中部温度 Middle Temp.	335 °C—340 °C
	后部温度 Rear Temp.	325 °C—330 °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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