



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 KG300-50 产品性能
LCP KG300-50 Product Properties

项目 Item	测试方法 Test Method	单位 Unit	KG300-50
物理性能 Physical Properties			
密度 Density	ASTM D792	g/cm ³	1.72
机械性能 Mechanical Properties			
拉伸强度 Tensile Strength	ASTM D638	MPa	110
拉伸模量 Tensile Modulus	ASTM D638	MPa	13000
断裂伸长率 Elongation at Break	ASTM D638	%	2.5
弯曲强度 Flexural Strength	ASTM D790	MPa	160
弯曲模量 Flexural Modulus	ASTM D790	MPa	11500
缺口冲击强度 Notched Impact Strength	ASTM D256	J/m	80
热性能 Thermal Properties			
热变形温度 HDT, 1.82 MPa	ASTM D648	°C	245
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)	IPC-TM-650 2.5.5.13		3.7
介电损耗因子 Dielectric Loss Factors (10 GHz)	IPC-TM-650 2.5.5.13		0.004
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	≥40

地址：上海市金山第二工业区夏盛路 230 号；邮编：201512；网址：www.pret.com.cn

Address: No.230, Xia sheng Rd, Jinshan Second Industry Park, Postcode: 201512,

Website: www.pret.com.cn

电话：021-67222266；传真：021-51685255, 69210400；

Tel: 021-67222266, Fax: 021-51685255, 69210400

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.



上海普利特化工新材料有限公司

Shanghai PRET Chemical New Materials Co., Ltd.

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.	350°C—360 °C
	前部温度 Front Temp.	350 °C—360 °C
	中部温度 Middle Temp.	330 °C—340 °C
	后部温度 Rear Temp.	310 °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.

地址：上海市金山第二工业区夏盛路 230 号；邮编：201512；网址：www.pret.com.cn

Address: No.230, Xia sheng Rd, Jinshan Second Industry Park, Postcode: 201512,

Website: www.pret.com.cn

电话：021-67222266；传真：021-51685255, 69210400；

Tel: 021-67222266, Fax: 021-51685255, 69210400

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.



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

Notice of Disclaimer

By accessing this Yellow Card data information sheet and the database from which this information was generated (the "Yellow Card"), the user acknowledges and accepts the terms and conditions upon which this Yellow Card is made available. This Yellow Card, the database from which it was generated, and all related materials, support, and services, are made available by UL for use only by permission and "as is", without any representation or warranty of any kind, express or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose or that the products identified in this Yellow Card will satisfy the user's requirements. UL cannot and does not warrant that the data contained in this Yellow Card is current, accurate, or complete. The user must independently confirm the conformance of any product to the applicable standards or requirements with the manufacturer of that product. Permission to access this Yellow Card may be withdrawn at any time by UL in its sole discretion. The identification of products and companies on this Yellow Card does not in any way imply endorsement of those products or companies by UL. UL does not assume and expressly disclaims, liability to any person for any loss or damage (including lost profits, lost savings, or any indirect, special, incidental, consequential or punitive damages whether or not UL has been advised of the possibility of such damages) arising out of, or in connection with, the use of this Yellow Card regardless of the cause or causes of such loss or damage.

地址：上海市金山第二工业区夏盛路 230 号；邮编：201512；网址：www.pret.com.cn

Address: No.230, Xia sheng Rd, Jinshan Second Industry Park, Postcode: 201512,

Website: www.pret.com.cn

电话：021-67222266；传真：021-51685255, 69210400；

Tel: 021-67222266, Fax: 021-51685255, 69210400

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.