



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-Q01 产品性能
LCP KG300-Q01 Product Properties

| 项目 Item | 测试方法 Test Method | 单位 Unit | KG300-Q01 低翘曲级 |
|--|---------------------|-------------------|---------------------|
| 物理性能 Physical Properties | | | |
| 密度 Density | ASTM D792 | g/cm ³ | 1.65 |
| 机械性能 Mechanical Properties | | | |
| 拉伸强度 Tensile Strength | ASTM D638 | MPa | 130 |
| 拉伸模量 Tensile Modulus | ASTM D638 | MPa | 15000 |
| 断裂伸长率 Elongation at Break | ASTM D638 | % | 2.0 |
| 弯曲强度 Flexural Strength | ASTM D790 | MPa | 180 |
| 弯曲模量 Flexural Modulus | ASTM D790 | MPa | 12500 |
| 缺口冲击强度 Notched Impact Strength | ASTM D256 | J/m | 120 |
| 热性能 Thermal Properties | | | |
| 热变形温度 HDT, 1.82MPa | 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 (1KHz) | IEC60250 | | 4.4 |
| 介电常数 Dielectric Constant (1MHz) | IEC60250 | | 3.7 |
| 介电损耗因子 Dielectric Dissipation Factor (1KHz) | IEC60250 | | 0.025 |
| 介电损耗因子 Dielectric Dissipation Factor (1MHz) | IEC60250 | | 0.036 |
| 体积电阻率 Volume Resistivity | ASTM D257 | Ω•cm | 10 ¹³⁻¹⁶ |
| 击穿电压 Dielectric Strength | 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.



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. | 335 °C—340 °C |
| 料管温度 Cylinder Temperature | 前部温度 Front Temp. 325 °C—330 °C |
| | 中部温度 Middle Temp. 315 °C—320 °C |
| | 后部温度 Rear Temp. 305 °C—310 °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: E467477

Shanghai Pret Chemical New Materials Co Ltd
230 Xiasheng Rd Jinshan Industrial Zone II, Shanghai 201512 CN



KG300-Q01

Liquid Crystal Polymer (LCP), pellets

| Flammability | Value | Test Method |
|------------------|--------|----------------------|
| Flame Rating | | UL 94 |
| 0.200 mm, BK, NC | V-0 | IEC 60695-11-10, -20 |
| 3.2 mm, BK, NC | V-0 | |
| Thermal | Value | Test Method |
| RTI Elec | | UL 746 |
| 0.200 mm | 130 °C | |
| 3.2 mm | 130 °C | |
| RTI Imp | | UL 746 |
| 0.200 mm | 130 °C | |
| 3.2 mm | 130 °C | |
| RTI Str | | UL 746 |
| 0.200 mm | 130 °C | |
| 3.2 mm | 130 °C | |

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

Adress: 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.