

# PC 1201-10P

## Description

高冲击强度，高透明度。适合有FDA要求的产品或普通注塑使用。

## Application

片材/薄膜, 吸尘器, 其他电子电器

## Key Features

食品级, 良好的脱模性, 高抗冲, 高透明度

| 物性名称                      | 规格          | 单位       | PC 1201-10P           |
|---------------------------|-------------|----------|-----------------------|
| Physical                  |             |          |                       |
| 熔体流动速率 ( 300 °C /1.2 kg ) | ASTM D1238  | g/10min  | 10                    |
| 密度                        | ASTM D792   | kg/m³    | 1200                  |
| 收缩率                       | ASTM D955   | mm/mm    | 0.005~0.007           |
| 吸水率@24hr, 23°C            | ASTM D570   | %        | 0.15                  |
| 吸水率@平衡, 50%湿度, 23°C       | ASTM D570   | %        | 0.32                  |
| Optical                   |             |          |                       |
| 折射率                       | ASTM D542   |          | 1.586                 |
| 透光率                       | ASTM D1003  | %        | 89                    |
| 雾度                        | ASTM D1003  | %        | 0.7~1.5               |
| Thermal                   |             |          |                       |
| 负荷热变形温度@4mm, 0.45MPa, 退火  | ASTM D648   | °C       | 144                   |
| 负荷热变形温度@4mm, 1.8MPa, 退火   | ASTM D648   | °C       | 141                   |
| 负荷热变形温度@4mm, 1.8MPa, 未退火  | ASTM D648   | °C       | 128                   |
| 维卡软化点, 50°C/hr, 50N       | ASTM D1525  | °C       | 149                   |
| 线性热膨胀系数@-40°C—82°C        | ASTM D696   | mm/mm/°C | 68 x 10 <sup>-6</sup> |
| Mechanical                |             |          |                       |
| 拉伸屈服应力                    | ASTM D638   | MPa      | 60                    |
| 极限拉伸强度                    | ASTM D638   | MPa      | 71                    |
| 屈服伸长率                     | ASTM D638   | %        | 6                     |
| 断裂伸长率                     | ASTM D638   | %        | 150                   |
| 拉伸模量                      | ASTM D638   | MPa      | 2410                  |
| 弯曲强度                      | ASTM D790   | MPa      | 96                    |
| 弯曲模量                      | ASTM D790   | MPa      | 2410                  |
| 悬臂梁缺口冲击强度@23°C            | ASTM D256   | J/m      | 900                   |
| 无缺口悬臂梁冲击强度@23°C           | ASTM D256   |          | No break              |
| 落镖冲击, 总能量@23°C            | ASTM D3763  | J        | 87                    |
| 洛氏硬度 HRR                  | ASTM D785   | R Scale  | 118                   |
| 洛氏硬度 HRM                  | ASTM D785   | M Scale  | 73                    |
| 耐磨性 ( D 雾度 )              | ASTM D1044  | %        | 45                    |
| Ignition Resistance       |             |          |                       |
| UL-94阻燃@0.5mm             | ASTM D635   |          | V-2                   |
| UL-94阻燃@1.6mm             | ASTM D635   |          | V-2                   |
| UL-94阻燃@2.5-2.7mm         | ASTM D635   |          | V-2                   |
| UL-94阻燃@3.0mm             | ASTM D635   |          | HB                    |
| 氧指数                       | ASTM D2863  | %        | 26                    |
| 球压温度                      | IEC 598-1   | °C       | >125                  |
| 平均燃烧距离                    | ASTM D635   | mm       | 25                    |
| Electrical                |             |          |                       |
| 灼热丝温度@2.0mm, 5秒           | IEC 695-2-1 | °C       | 850                   |

|              |           |       |                        |
|--------------|-----------|-------|------------------------|
| 漏电起痕指数@2.0mm | IEC 112   | V     | 250                    |
| 介电强度         | ASTM D149 | KV/mm | 17                     |
| 介电常数@60Hz    | ASTM D150 |       | 3                      |
| 损耗因数@60Hz    | ASTM D150 |       | 0.001                  |
| 体积电阻率@23℃，干燥 | ASTM D257 | W-cm  | 2.0 x 10 <sup>17</sup> |

## 通知

1. When used unmodified for the manufacture of food contact articles LUPOY 1201-10 Polycarbonate resins comply with the U.S. Food, Drug, and Cosmetic Act and Food Additive Regulations 21 CFR 177.1580 and E.U. Food Contact Regulations. The uses cited above are subject to GMP (Good Manufacturing Practices) and any limitations that are part of the regulations. The regulations should be consulted for complete details.
2. Typical properties; not to be constructed as specifications.
3. Tensile Test @ 23 °C; 50 mm/min.
4. 0.125 in; 10 mil notch (3.2 mm; 0.25 mm notch).
5. 0.125 in; 8000 ipm (3.2 mm; 203 m/min).
6. 1,000 g; CS-10 F wheel; 500 cycles.
7. These numerical flame spread ratings are small-scale test values and are not intended to reflect hazards presented by these or any other materials under actual fire conditions. UL 94 file: E67171.

※ Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.  
Values given should not be interpreted as specification and not be used for part or tool design.  
All properties, except melt flow rate are measured on injection molded specimens and after 48 hours storage at 23°C, 50% relative humidity.