

PC 1201-15

Description

高流动性，高透明度。适合有FDA要求的产品或普通注塑使用。

Application

粒料, 食品包装, 吸尘器, 其他电子电器, 一般产品

Key Features

食品级, 良好的脱模性, 高流动, 高透明度

物性名称	规格	单位	PC 1201-15
Physical			
熔体流动速率 (300 °C /1.2 kg)	ASTM D1238	g/10min	15
密度	ASTM D792	kg/m ³	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	143
负荷热变形温度@4mm, 1.8MPa, 退火	ASTM D648	°C	140
负荷热变形温度@4mm, 1.8MPa, 未退火	ASTM D648	°C	127
维卡软化点, 50°C/hr, 50N	ASTM D1525	°C	148
线性热膨胀系数@-40°C—82°C	ASTM D696	mm/mm/°C	68 x 10 ⁻⁶
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	2340
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	850
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	72
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 ¹⁷

通知

1. When used unmodified for the manufacture of food contact articles LUPOY 1201-15 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.