

PC 1300-15

Description

高流动性，良好的着色性。适合改性或者注塑使用。

Application

粒料, 片材/薄膜

Key Features

着色性, 高流动, 高透明度

物性名称	规格	单位	PC 1300-15
Physical			
熔体流动速率 (300 °C /1.2 kg)	ASTM D1238	g/10min	15
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	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. Typical properties; not to be constructed as specifications.
 - 2. Tensile Test @ 23 °C; 50 mm/min.
 - 3. 0.125 in; 10 mil notch (3.2 mm; 0.25 mm notch).
 - 4. 0.125 in; 8000 ipm (3.2 mm; 203 m/min).
 - 5. 1,000 g; CS-10 F wheel; 500 cycles.
 - 6. 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℃, 50% relative humidity.