WeConnectScience

LG Chem

PC 1300-03

Description

高冲击强度，良好的着色性。适合改性(粒料)或者注塑使用。

Application

粒料, 片材/薄膜

Key Features

着色性, 高抗冲, 高透明度

物性名称	规格	单位	PC 1300-03
Physical			
熔体流动速率（300 °C /1.2 kg）	ASTM D1238	g/10min	3
密度	ASTM D792	kg/m³	1200
收缩率	ASTM D955	㎜/㎜	0.005~0.007
吸水率@24hr，23℃	ASTM D570	%	0.15
吸水率@平衡，50%湿度，23℃	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	℃	146
负荷热变形温度@4mm，1.8MPa，退火	ASTM D648	℃	143
负荷热变形温度@4mm，1.8MPa，未退火	ASTM D648	℃	132
维卡软化点，50℃/hr,50N	ASTM D1525	℃	151
线性热膨胀系数@-40℃—82℃	ASTM D696	mm/mm/℃	68 x 10^-6
Mechanical			
拉伸屈服应力	ASTM D638	MPa	60
极限拉伸强度	ASTM D638	MPa	72
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℃	ASTM D256	J/m	950
无缺口悬臂梁冲击强度@23℃	ASTM D256		No break
落镖冲击，总能量@23℃	ASTM D3763	J	94
洛氏硬度 HRR	ASTM D785	R Scale	118
洛氏硬度 HRM	ASTM D785	M Scale	74
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@1.6-1.7mm	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	℃	>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	℃	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.