

Technical Data

总体

材料状态	• 已商用：当前有效		
资料 ¹	• Technical Datasheet		
UL 黄卡 ²	• E244324-462415 • E50075-312266 • E195100-101422438 • E245526-101512718		
搜索 UL 黄卡	• Teijin Kasei America, Inc. (Teijin Chemicals) • Panlite®		
供货地区	• 北美洲	• 欧洲	• 亚太地区
添加剂	• 脱模		
性能特点	• 低粘度	• 脱模性能良好	
用途	• 复合物 • 开关	• 透明或半透明配件 • 一般目的	
外观	• 清晰/透明		
形式	• 颗粒料		
加工方法	• 复合	• 注吹成型	• 注射成型

物理性能	额定值	单位制	测试方法
比重	1.20 g/cm³		ASTM D792 ISO 1183
溶化体积流率 (MVR) (300°C/1.2 kg)	11.0 cm³/10min		ISO 1133
收缩率			
流动	0.50 到 0.70 %		ASTM D955
横向流动	0.50 到 0.70 %		ASTM D955
横向流量	0.50 到 0.70 %		ISO 294-4
流量	0.50 到 0.70 %		ISO 294-4
吸水率 (23°C, 24 hr)	0.20 %		ASTM D570 ISO 62

机械性能	额定值	单位制	测试方法
拉伸模量			
--	2130 MPa		ASTM D638
--	2400 MPa		ISO 527-2/1
抗张强度			
屈服	62.0 MPa		ASTM D638 ISO 527-2/50
断裂	78.0 MPa		ASTM D638
伸长率			
屈服	6.0 %		ASTM D638 ISO 527-2/50
断裂	140 %		ASTM D638
断张率	50 %		ISO 527-2/50
弯曲模量			
--	2260 MPa		ASTM D790
-- 4	2350 MPa		ISO 178
弯曲强度			
-- 4	92.0 MPa		ISO 178
屈服	90.0 MPa		ASTM D790
压缩强度	76.0 MPa		ASTM D695

冲击性能	额定值	单位制	测试方法
简支梁缺口冲击强度	71 kJ/m²		ISO 179

冲击性能	额定值 单位制	测试方法
简支梁缺口冲击强度	无断裂	ISO 179
悬壁梁缺口冲击强度		ASTM D256
3.20 mm	830 J/m	
6.40 mm	130 J/m	
硬度	额定值 单位制	测试方法
洛氏硬度 (M 计秤)	77	ASTM D785
热性能	额定值 单位制	测试方法
热变形温度		
0.45 MPa, 未退火	142 °C	ASTM D648
0.45 MPa, 未退火	141 °C	ISO 75-2/B
1.8 MPa, 未退火	132 °C	ASTM D648
1.8 MPa, 未退火	128 °C	ISO 75-2/A
维卡软化温度	148 °C	ISO 306/B50
线形膨胀系数		ASTM D696
流动	0.000070 cm/cm/°C	ISO 11359-2
横向	0.000070 cm/cm/°C	
RTI Elec (1.47 mm)	125 °C	UL 746
RTI Imp (1.47 mm)	115 °C	UL 746
RTI Str (1.47 mm)	125 °C	UL 746
电气性能	额定值 单位制	测试方法
表面电阻率	1.0E+15 ohm	IEC 60093
体积电阻率		
--	3.0E+18 ohm·cm	ASTM D257
--	1.0E+15 ohm·cm	IEC 60093
介电强度		
1.60 mm ⁵	30 kV/mm	ASTM D149
--	30 kV/mm	IEC 60243-1
介电常数		
60 Hz	2.95	ASTM D150
1 MHz	2.90	ASTM D150
100 Hz	3.10	IEC 60250
1 MHz	3.00	IEC 60250
耗散因数		
60 Hz	0.00040	ASTM D150
1 MHz	0.0090	ASTM D150 IEC 60250
100 Hz	0.0010	IEC 60250
耐电弧性	110 sec	ASTM D495
相比耐漏电起痕指数(CTI)	300 V	UL 746
漏电起痕指数	250 V	IEC 60112
可燃性	额定值 单位制	测试方法
UL 阻燃等级		UL 94
1.90 mm	HB	
0.400 mm	V-2	
光学性能	额定值 单位制	测试方法
折射率	1.585	ASTM D542
透射率 (3000 μm)	88.0 %	ASTM D1003
补充信息		
Electric Strength, IEC 60243-1, Short Time Test: 30 MV/m		
注射	额定值 单位制	
干燥温度	100 到 120 °C	
干燥时间	5.0 hr	

注射	额定值 单位制
建议的最大水分含量	0.020 %
加工（熔体）温度	260 到 320 °C
模具温度	80.0 到 120 °C
注塑温度	98.0 到 147 MPa

备注

- ¹ 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。
- ² UL 黄卡含有 UL 验证的易燃性和电气特性。UL IDES 持续努力在 Prospector 中将黄卡链接至单个塑料材料，然而此列表可能未包括所有相应链接。重要的是，我们对 Prospector 中找到的这些黄卡和塑料材料之间的关联进行验证。如需完整的黄卡列表，请访问 UL 黄卡搜索。
- ³ 一般属性：这些不能被视为规格。
- ⁴ 2.0 mm/min
- ⁵ 方法C（流量上升率）

Panlite® L-1225Y

聚碳酸酯

Teijin Kasei America, Inc. (Teijin Chemicals)



ides.com/prospector

购买地点

供应商

Teijin Kasei America, Inc. (Teijin Chemicals)

Alpharetta, GA USA

电话: 770-346-8949

Web: <http://www.teijinkasei.com>

分销商

Calsak Polymers

电话: 800-743-2595

Web: <http://www.calsakpolymers.com/>

可用性: North America

Resin Resource, Inc.

电话: 877-652-3431

Web: <http://www.resinresourceinc.com/>

可用性: North America

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

电话: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

可用性: Bosnia and Herzegovina, Bulgaria, Croatia, France, Hungary, Ireland, Macedonia, Romania, Serbia, Slovakia, Slovenia, United Kingdom



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– Kevin Chase, Owner & President, Chase Plastics



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