

INNOSIL

- 国家级高新技术企业
- 广东省有机硅技术中心

中山市聚力有机硅技术有限公司

SilPrimer7151 镀银层抗硫化保护剂



电子电气有机硅



高性能树脂与涂料



特种硅油与乳液



电子电气 消费电子 Consumer electronics

- 电子组装
- 散热管理
- 平板显示模组
- 照明及家电

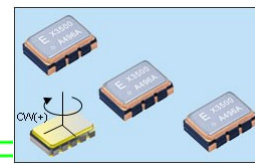
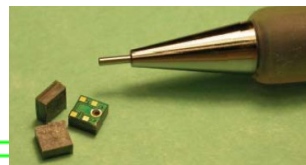
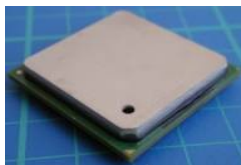
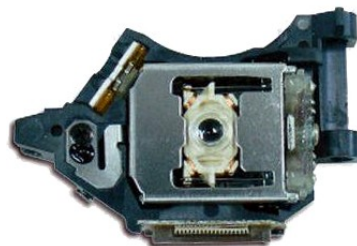


电子电气 微电子Microelectronics

半导体封装

LED封装

汽车电子



镀银层抗硫化保护剂 Si I Primer 7151

- **应用领域**

照明应用

COB或集成应用

背光应用

- **测试项目**

抗硫化性能

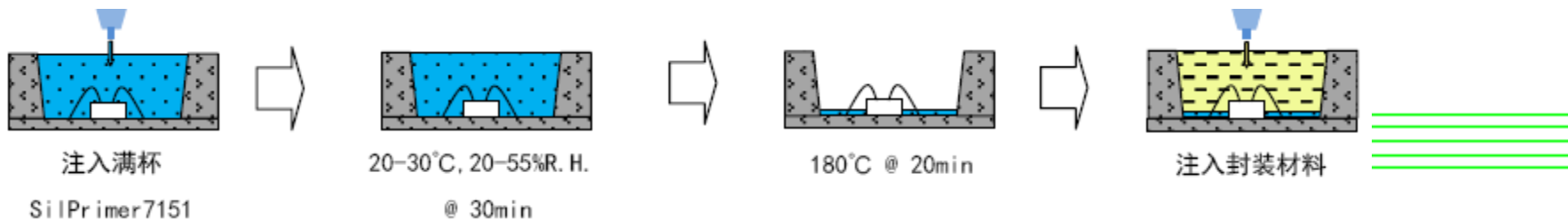
耐冷热冲击性能



固化前特性		
属性	平均结果	ASTM
外观	透明液体	D2090
粘度	2 mPas	D1084, D2196
比重	0.91 g/cm ³	D792

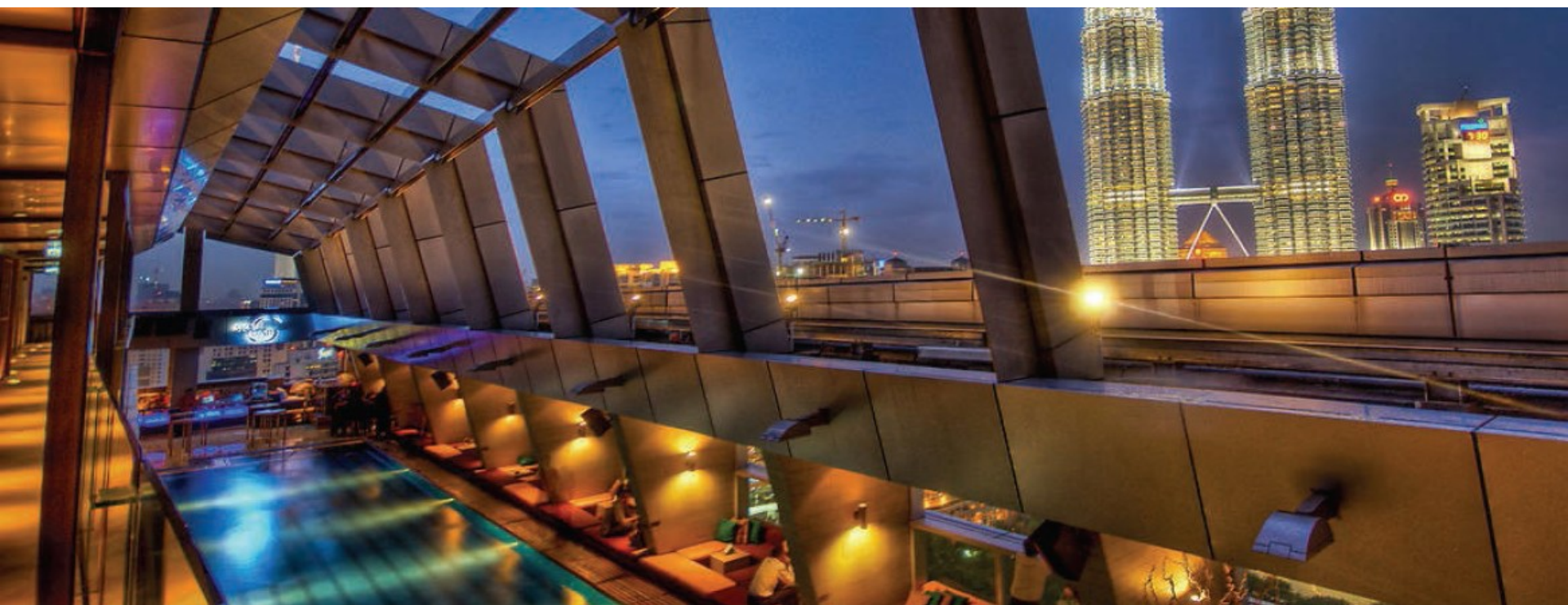
使用方法

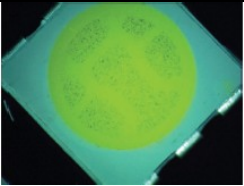
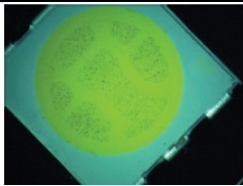
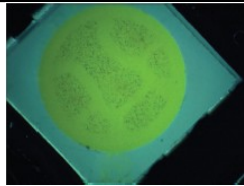
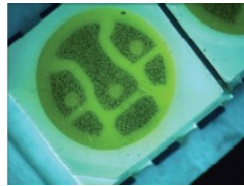
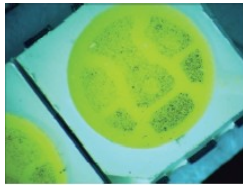
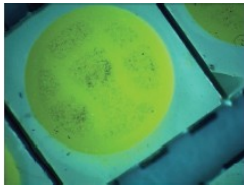
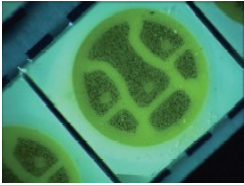
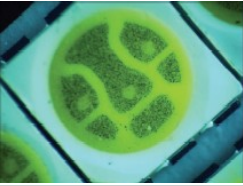
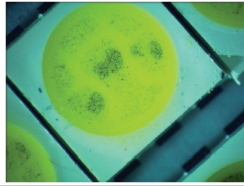
- **SilPrimer7151**将滴涂在金属反射层表面
- 标准固化条件：RT @ 30min, 180°C @ 20min



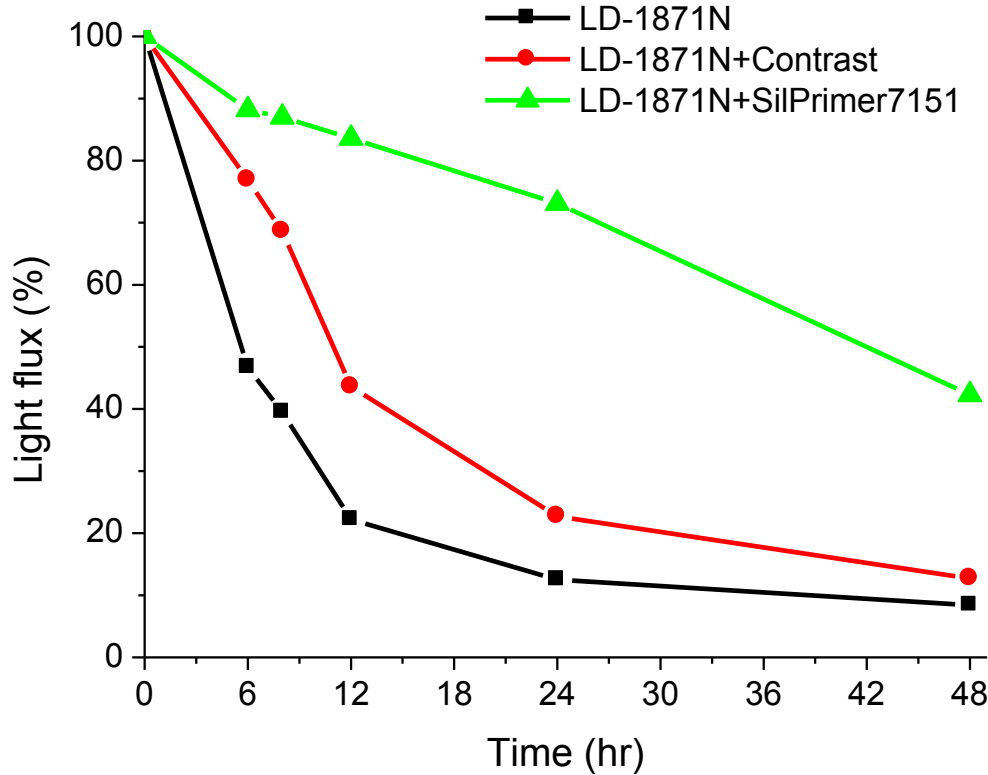
LED封装有机硅材料- 照明应用

镀银层抗硫化保护剂+低折率有机硅封装材料



封装胶水	低折射率有机硅封装材料 LD-1871N		
镀银层处理	-	某进口保护剂	SilPrimer7151
支架类型	5050		
初始			
流明值 (lm)	25.40	25.27	25.25
硫化8hrs后			
流明值 (lm)	10.03(39.5%)	17.33 (68.6%)	21.94 (87.0%)
硫化24hrs后			
流明值 (lm)	3.18(12.5%)	5.73 (22.7%)	18.45 (73.1%)

*硫化测试：0.2%单质硫粉，80℃环境下，灯珠面朝向硫粉



测试条件:

0.2g硫粉, 100mL广口瓶, 80°C

灯珠面向硫粉

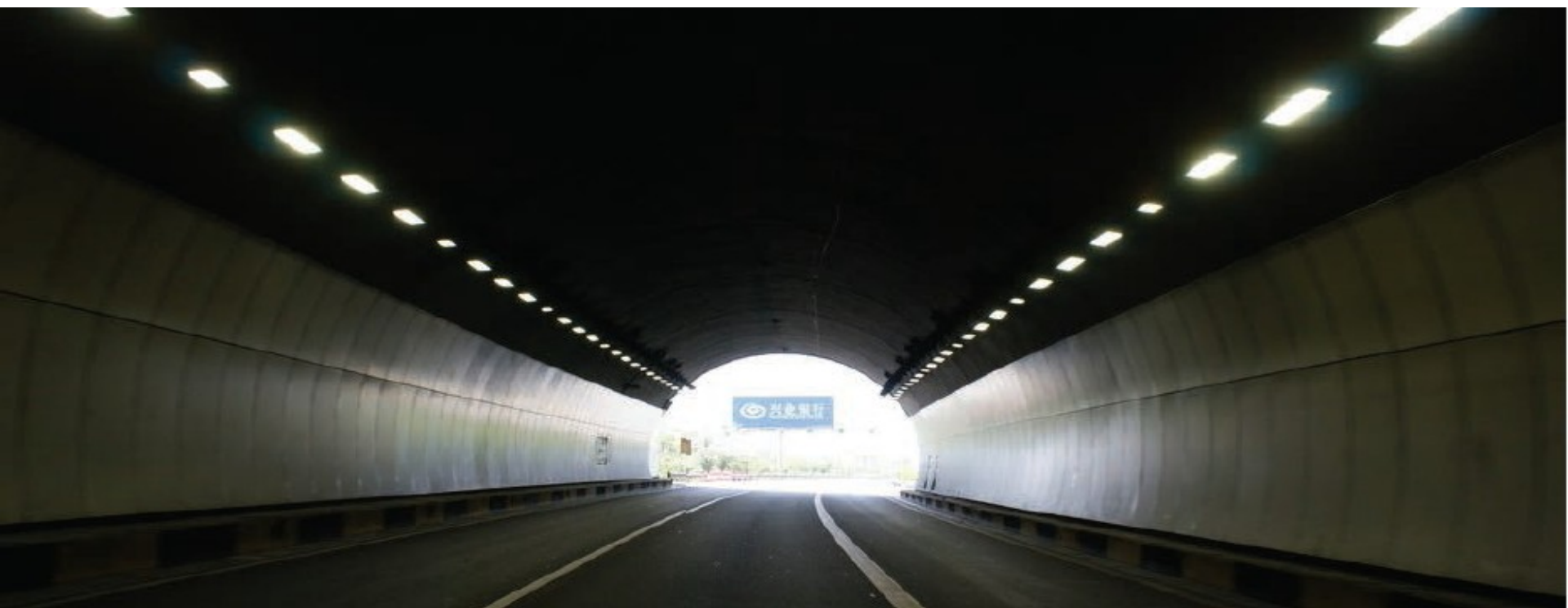
低折射率有机硅封装材料抗硫化性能 (LD-1871N; 支架类型: 5050)

镀银层处理	0hr	6hrs	8hrs	12hrs	24hrs	48hrs
-	25.40lm (100%)	11.86lm (46.7%)	10.03lm (39.5%)	5.65lm (22.2%)	3.18lm (12.5%)	2.14lm (8.4%)
某进口保护剂	25.27lm (100%)	19.43lm (76.9%)	17.33lm (68.6%)	11.02lm (43.6%)	5.73lm (22.7%)	3.22lm (12.7%)
SilPrimer7151	25.25lm (100%)	22.27lm (88.2%)	21.94lm (87.0%)	21.11lm (83.6%)	18.45lm (73.1%)	10.68lm (42.3%)

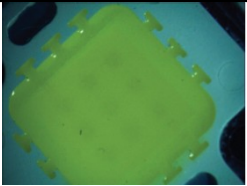
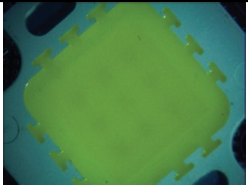
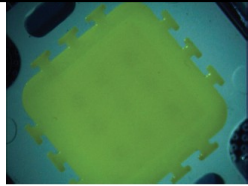
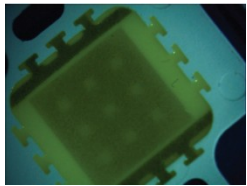
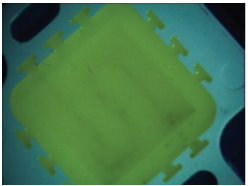
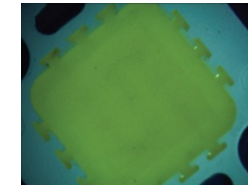
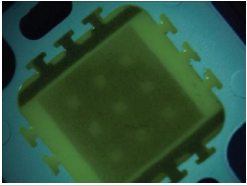
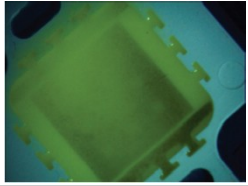
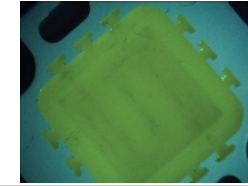
低折射率有机硅封装材料耐冷热冲击性能 (LD-1871N; -40℃, 30min/100℃, 30min; 支架类型: 5050)				
镀银层处理	150 cycles	300 cycles	450 cycles	600 cycles
-	外观无异常 0死灯	外观无异常 0死灯	外观无异常 0死灯	外观无异常 0死灯
某进口保护剂	外观无异常 0死灯	外观无异常 4%死灯	外观无异常 4%死灯	外观无异常 10%死灯
SilPrimer7151	外观无异常 0死灯	外观无异常 0死灯	外观无异常 0死灯	外观无异常 0死灯

LED封装有机硅材料- COB或集成应用

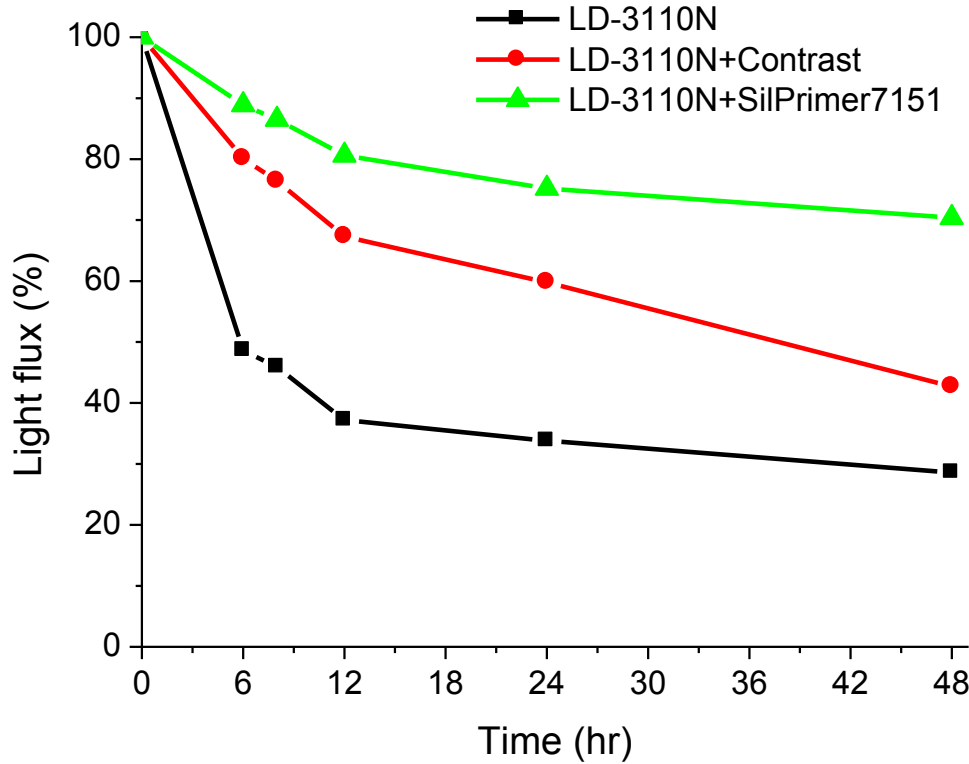
镀银层抗硫化保护剂+低折率有机硅封装材料



低折射率有机硅封装灯珠抗硫化测试数据表
(COB或集成应用)

封装胶水	低折射率有机硅封装材料 LD-3110N		
镀银层处理	-	某进口保护剂	SilPrimer7151
支架类型	10W		
初始			
流明值 (lm)	559.72	511.23	531.89
硫化8hrs后			
流明值 (lm)	257.08(45.9%)	390.75 (76.4%)	459.85 (86.5%)
硫化24hrs后			
流明值 (lm)	188.98(33.8%)	305.77 (59.8%)	400.13 (75.2%)

*硫化测试: 0.2%单质硫粉, 80°C环境下, 灯珠面朝向硫粉



测试条件:

0.2g硫粉, 100mL广口瓶, 80°C

灯珠面向硫粉

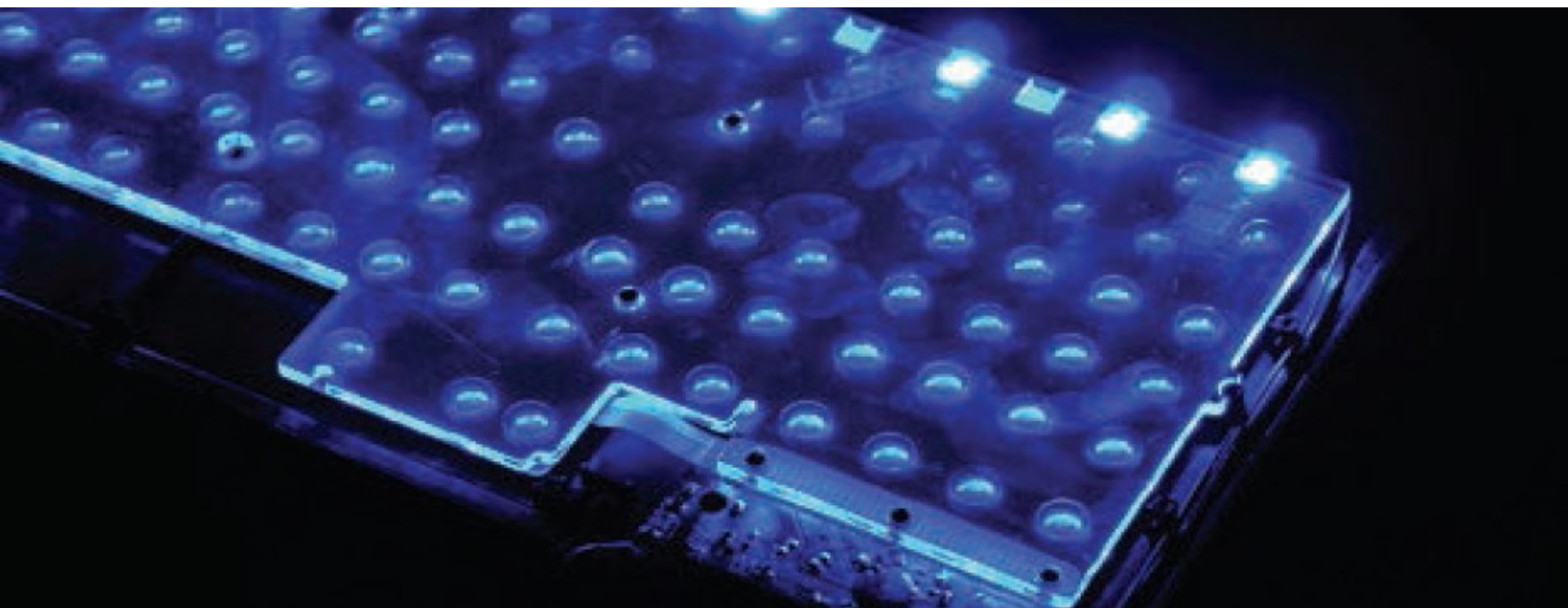
低折射率有机硅封装材料抗硫化性能 (LD-3110N; 支架类型: 10W)

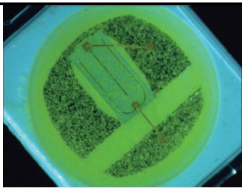
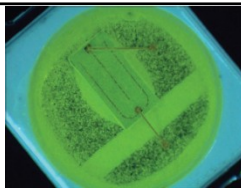
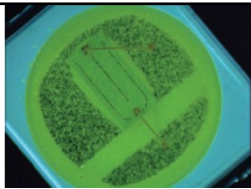
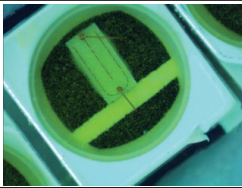
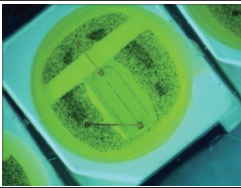
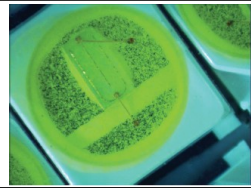
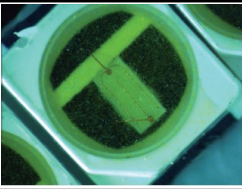
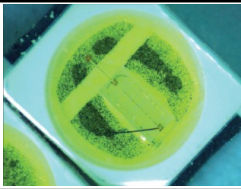
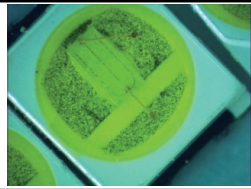
镀银层处理	0hr	6hrs	8hrs	12hrs	24hrs	48hrs
-	559.72lm (100%)	272.02lm (48.6%)	257.08lm (45.9%)	208.22lm (37.2%)	188.98lm (33.8%)	160.08lm (28.6%)
某进口保护剂	511.23lm (100%)	409.50lm (80.1%)	390.75lm (76.4%)	344.06lm (67.3%)	305.77lm (59.8%)	218.30lm (42.7%)
SilPrimer7151	531.89lm (100%)	472.85lm (88.9%)	459.85lm (86.5%)	428.70lm (80.6%)	400.13lm (75.2%)	374.45lm (70.4%)

低折射率有机硅封装材料耐冷热冲击性能 (LD-3110N;-40℃, 30min/100℃, 30min; 支架类型: 10W)				
镀银层处理	50 cycles	100 cycles	150 cycles	200 cycles
-	外观无异常 0死灯	外观无异常 0死灯	外观无异常 0死灯	外观无异常 0死灯
某进口保护剂	外观无异常 0死灯	外观无异常 4%死灯	外观无异常 8%死灯	外观无异常 12%死灯
SilPrimer7151	外观无异常 0死灯	外观无异常 0死灯	外观无异常 0死灯	外观无异常 0死灯

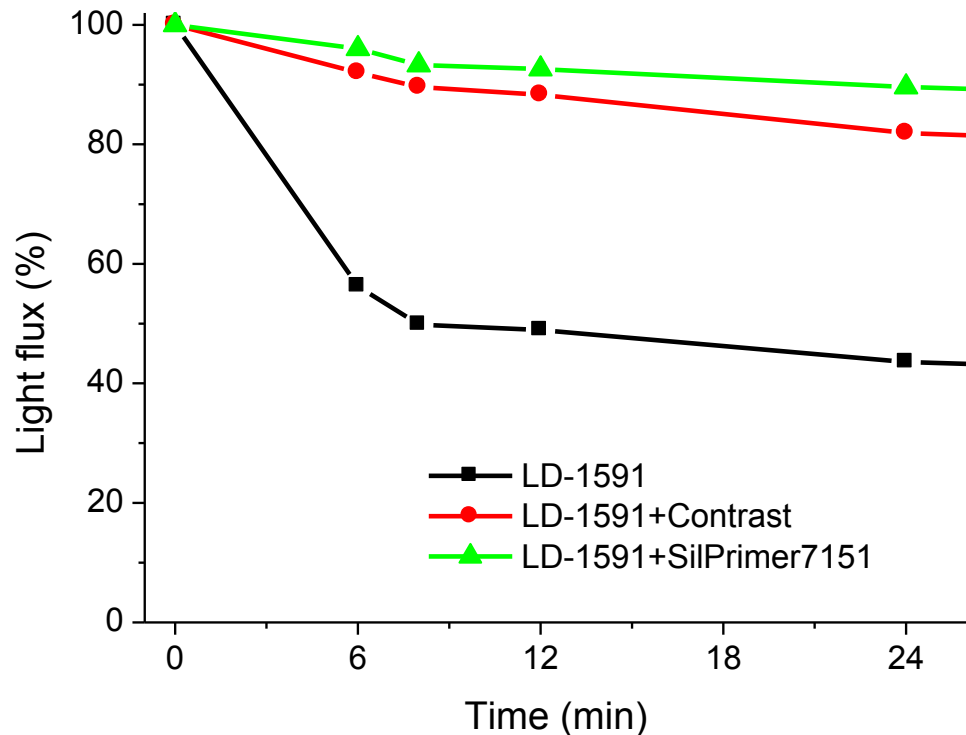
LED封装有机硅材料- 背光应用

镀银层抗硫化保护剂+高折率有机硅封装材料



封装胶水	高折射率有机硅封装材料 LD-1591		
镀银层处理	-	某进口保护剂	SilPrimer7151
支架类型	2835 (PCT, 圆杯)		
初始			
流明值 (lm)	55.19	50.49	51.33
硫化8hrs后			
流明值 (lm)	27.51(49.8%)	45.25(89.6%)	47.88(93.3%)
硫化24hrs后			
流明值 (lm)	24.06(43.6%)	41.33(81.9%)	46.01(89.6%)

*硫化测试: 0.2%单质硫粉, 80°C环境下, 灯珠面朝向硫粉



测试条件:

0.2g硫粉, 100mL广口瓶, 80°C
灯珠面向硫粉

高折射率有机硅封装材料抗硫化性能 (LD-1591; 支架类型: 2835)

镀银层处理	0hr	6hrs	8hrs	12hrs	24hrs	48hrs
-	55.19 lm (100%)	31.05 lm (56.3%)	27.51 lm (49.9%)	27.01 lm (48.9%)	24.06 lm (43.6%)	21.95 lm (39.8%)
某进口保护剂	50.49 lm (100%)	46.44 lm (92.0%)	45.25 lm (89.6%)	44.59 lm (88.3%)	41.33 lm (81.9%)	39.18 lm (77.6%)
SilPrimer7151	51.33 lm (100%)	49.27 lm (96.0%)	47.88 lm (93.3%)	47.53 lm (92.6%)	46.01 lm (89.6%)	44.09 lm (85.9%)

高折射率有机硅封装材料耐冷热冲击性能 (LD-1591;-40℃, 30min/100℃, 30min; 支架类型: 2835)				
镀银层处理	150 cycles	300 cycles	450 cycles	600 cycles
-	外观无异常 0 死灯	外观无异常 0 死灯	外观无异常 0 死灯	外观无异常 0 死灯
某进口保护剂	外观无异常 3.6% 死灯	外观无异常 7.1% 死灯	外观无异常 21.1% 死灯	外观无异常 32.1% 死灯
SilPrimer7151	外观无异常 0 死灯	外观无异常 0 死灯	外观无异常 0 死灯	外观无异常 0 死灯

联系窗口

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