



# SL 涂覆型PI无胶单面挠性覆铜板

SL Casting PI adhesiveless single side flexible copper clad laminate ( 2-layer FCCL)

## 特点

- 优异的耐热性、尺寸稳定性和耐化学性。
- 优异的挠曲性能和电性能。
- 不含卤素，阻燃性达到 UL94 V-0 级。
- 满足 RoHS 指令要求，不含铅、汞、镉、六价铬、多溴联苯、多溴联苯醚等环境管理物质。

## FEATURES

- Excellent soldering reliability, dimensional stability and chemical resistance
- Excellent flexibility and electrical properties .
- Halogen free, Flammability UL94 V-0.
- Compatible with EU RoHS directive, free of Pb,Hg,Cd, Cr<sup>6+</sup>,PBB,PBDE, etc..

## 应用领域

电脑、移动电话、数码相机、摄录机、平板显示、仪器仪表、汽车电子等高端电子产品中。

## APPLICATIONS

Computer, mobile phone, digital camera, VCR, flat panel display, apparatus and instrument, automotive electronics, etc..

## 性能表 GENERAL PROPERTIES

| 性能项目<br>Test Item                    | 测试方法<br>Test Method                         | 单位<br>Unit | IPC 标准值*<br>Standard | 典型值 Typical Value        |
|--------------------------------------|---|------------|----------------------|--------------------------|
|                                      |   |            |                      | SL 1035SR                |
| 剥离强度<br>Peel Strength 90°            | IPC-TM-650,No.2.4.9<br>Method A<br>Method C | N/mm       | ≥0.525<br>≥0.525     | 1.41<br>1.38             |
| 热应力<br>Thermal Stress                | IPC-TM-650,No.2.4.13                        | -          | Pass                 | Pass                     |
| 尺寸稳定性<br>Dimensional Stability       | IPC-TM-650,No.2.2.4<br>Method B             | %          | ±0.15                | MD: 0.012<br>TD: -0.0017 |
| 耐化学性<br>Chemical Resistance          | IPC-TM-650,No.2.3.2                         | %          | ≥80                  | > 90                     |
| 吸水率<br>Moisture Absorption           | IPC-TM-650,No.2.6.2                         | %          | ≤3                   | 1.4                      |
| 体积电阻率<br>Volume Resistivity          | IPC-TM-650,No.2.5.17                        | MΩ-cm      | ≥10 <sup>6</sup>     | 2.03×10 <sup>9</sup>     |
| 表面电阻<br>Surface Resistance           | IPC-TM-650,No.2.5.17                        | MΩ         | ≥10 <sup>5</sup>     | 5.97×10 <sup>5</sup>     |
| 介电常数 1MHZ<br>Dielectric Constant     | IPC-TM-650,No.2.5.5.9                       | -          | ≤3.7                 | 3.38                     |
| 介电损耗 1MHZ<br>Dissipation Factor      | IPC-TM-650,No.2.5.5.9                       | -          | ≤0.01                | 0.003                    |
| 耐折性（MIT 法）<br>Folding Endurance(MIT) | JIS C 6471<br>R0.8×4.9N                     | Times      | -                    | > 5000                   |
| 电气强度<br>Dielectric Strength          | IPC-TM-650,No.2.5.6.1                       | V/μm       | ≥80                  | 120                      |

注释 Explanations:\* Certified to IPC-4204/11 Copper Clad Adhesiveless Polyimide



# SL 涂覆型PI无胶单面挠性覆铜板

SL Casting PI adhesiveless single side flexible copper clad laminate ( 2-layer FCCL)

## 产品规格代码描述Product Code Description



## 常规产品表 SPECIFICATIONS OF STANDARD PRODUCTS

| 产品规格<br>Specifications | 材料厚度 Thickness ( $\mu$ m) |                   | 铜箔类型<br>Copper Type | 应用举例<br>Applications   |
|------------------------|---------------------------|-------------------|---------------------|--|
|                        | PI 膜<br>PI film           | 铜箔<br>Copper Foil |                     |  |
| SL 0512SS              | 12.5                      | 12                | 电解铜箔 ED             | 马达，数码产品等通用<br>连接器<br>Motor, digital products<br>etc. as universal<br>connector |
| SL 0812SS              | 20                        | 12                | 电解铜箔 ED             |  |
| SL 1012SS              | 25                        | 12                | 电解铜箔 ED             |  |
| SL 1018SS              | 25                        | 18                | 电解铜箔 ED             |  |
| SL 1018SR              | 25                        | 18                | 压延铜箔 RA             | 马达，数码产品等通用<br>连接器<br>Motor, digital products<br>etc. as universal<br>connector |

## 包装PURCHASING INFORMATION

产品宽度250+2/-0mm或500+2/-0mm，每卷50+1/-0米或100+2/-0米；其它规格、尺寸可根据客户要求而定。  
SF201 is supplied in rolls and standard width of 250+2/-0mm or 500+2/-0mm. Roll length is 50+1/-0m or 100+2/-0m. Other sizes could be available upon request.

## 贮存条件STORAGE CONDITION

贮存在干燥、无腐蚀气体的室内，板材以原始包装在室温条件下贮存时，贮存期为一年。无需冷藏或冷冻条件下贮存。

Store in the room of dryness and no corrosive gases. One year when stored in the original packaging at room temperature. The products do not require refrigeration and should not be frozen.