



# SF305 无卤阻燃型聚酰亚胺薄膜挠性覆铜板

SF305 Halogen-free flame-resistant type PI film based FCCL(3-layer FCCL)

## 特点

- 不含卤素，阻燃性达到 UL94 V-0 级。
- 优秀的挠曲性、耐热性、尺寸稳定性和电性能。
- 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。

## FEATURES

- Halogen free, Flammability UL94 V-0.
- Excellent flexibility, thermal resistance, dimensional and electrical properties.
- 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、办公自动化设备等。

## APPLICATIONS

Computer, Mobile phone, Digital camera, VCR, OA equipment, 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         |                           |
|----------------------------------|---|------------|----------------------|---------------------------|---------------------------|
|                                  |   |            |                      | SF305<br>051813DR         | SF305<br>051813SE         |
| 剥离强度<br>Peel Strength 90°        | IPC-TM-650,No.2.4.9<br>Method A<br>Method C | N/mm       | ≥0.7<br>≥0.525       | 1.1<br>1.0                | 1.3<br>1.2                |
| 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: -0.0684<br>TD: 0.0691 | MD: -0.0418<br>TD: 0.0354 |
| 耐化学性<br>Chemical Resistance      | IPC-TM-650,No.2.3.2                         | %          | ≥80                  | >85                       | >85                       |
| 吸水率<br>Moisture Absorption       | IPC-TM-650,No.2.6.2                         | %          | ≤4                   | 0.04                      | 0.04                      |
| 体积电阻率<br>Volume Resistivity      | IPC-TM-650,No.2.5.17                        | MΩ-cm      | ≥10 <sup>6</sup>     | 1.5×10 <sup>8</sup>       | 2.0×10 <sup>8</sup>       |
| 表面电阻<br>Surface Resistance       | IPC-TM-650,No.2.5.17                        | MΩ         | ≥10 <sup>5</sup>     | 5.0×10 <sup>6</sup>       | 4.5×10 <sup>6</sup>       |
| 介电常数 1MHZ<br>Dielectric Constant | IPC-TM-650,No.2.5.5.9                       | -          | ≤4.0                 | 3.6                       | 3.6                       |
| 介电损耗 1MHZ<br>Dissipation Factor  | IPC-TM-650,No.2.5.5.9                       | -          | ≤0.04                | 0.031                     | 0.03                      |
| 电气强度<br>Dielectric Strength      | IPC-TM-650,No.2.5.6.1                       | V/μm       | ≥80                  | 134                       | 140                       |
| 耐折性 MIT                          | JIS C 6471<br>R0.8×4.9N                     | Times      | -                    | >600                      | >350                      |

注释 Explanations:\* Certified to IPC-4204/2 Copper Clad Polyimide Dielectric with Epoxy Adhesive



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## 产品规格代码描述 Product Code Description

SF305 05 18 13 S R



## 常规产品表 SPECIFICATIONS OF STANDARD PRODUCTS

| 产品规格<br>Specifications | 材料厚度 Thickness (μm) |                   |                 | 铜箔类型<br>Copper Type | 应用举例<br>Applications   |
|------------------------|---------------------|-------------------|-----------------|---------------------|------------------------|
|                        | PI 膜<br>PI film     | 铜箔<br>Copper Foil | 胶粘剂<br>Adhesive |                     |                        |
| SF305 05*13SE          | 12.5                | 12,18             | 13              | 电解铜箔 ED             | 通用型<br>General type    |
| SF305 05*13SR          | 12.5                | 12,18             | 13              | 压延铜箔 RA             |                        |
| SF305 10*20SE          | 25                  | 18,35             | 20              | 电解铜箔 ED             |                        |
| SF305 101820SR         | 25                  | 18                | 20              | 压延铜箔 RA             |                        |
| SF305 203520SE         | 50                  | 35                | 20              | 电解铜箔 ED             |                        |
| SF305 051813DE         | 12.5                | 18                | 13              | 电解铜箔 ED             |                        |
| SF305 10*20DE          | 25                  | 18, 35            | 20              | 电解铜箔 ED             |                        |
| SF305 201820DE         | 50                  | 18                | 20              | 电解铜箔 ED             |                        |
| SF305 051813DR         | 12.5                | 18                | 13              | 压延铜箔 RA             |                        |
| SF305 10*20DR          | 25                  | 18, 35            | 20              | 压延铜箔 RA             |                        |
| SF305 201820DR         | 50                  | 18                | 20              | 压延铜箔 RA             |                        |
| SF305 103520SR         | 25                  | 35                | 20              | 压延铜箔 RA             |                        |
| SF305 203520SR         | 50                  | 35                | 20              | 压延铜箔 RA             |                        |
| SF305 207020SE         | 50                  | 70                | 20              | 电解铜箔 ED             |                        |
| SF305 207020SR         | 50                  | 70                | 20              | 压延铜箔 RA             | 摄像头模组<br>Camera Module |
| SF305 051213DE         | 12.5                | 12                | 13              | 电解铜箔 ED             |                        |
| SF305 051213DR         | 12.5                | 12                | 13              | 压延铜箔 RA             |                        |
| SF305 207025DE         | 50                  | 70                | 25              | 电解铜箔 ED             | 车灯<br>Car light        |
| SF305 207025DR         | 50                  | 70                | 25              | 压延铜箔 RA             |                        |

## 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。SF305 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.

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