



SF305C

SF305C Halogen-free flame-resistant type polyimide film based Coverlay

FEATURES

- Halogen free, flammability UL94 V-0.
- High bonding strength, good dimensional stability and thermal resistance.
- Low adhesive flowing, good processability, suitable for both fast and traditional lamination style.
- Compatible with EU RoHS directive, free of Pb, Hg, Cd, Cr⁶⁺, PBB, PBDE, etc..

APPLICATIONS

Coverlay for FPC.

GENERAL PROPERTIES

| 性能项目 Test Item | 试验处理条件 Treatment Condition | 单位 Unit | 性能数据 Property Data | | |
|--|-----------------------------------|------------|-----------------------------|----------------------------|----------------------------|
| | | | IPC 标准值 Standard | 典型值 Typical Value | |
| | | | | SF305C 0515 | SF305C 1025 |
| 溢胶量 Resin Flow | - | mm | - | <0.15 | <0.15 |
| 剥离强度 ¹ Peel Strength (90°) ¹ | A | N/mm | ≥0.7 | 0.9 | 1.1 |
| | 288℃,5s | | ≥0.5 | 0.9 | 1.0 |
| 热应力 ¹ Thermal Stress ¹ | 300℃,10s | - | 288℃,10s No delamination | 无分层、无起泡 No delamination | 无分层、无起泡 No delamination |
| 尺寸稳定性 Dimensional Stability | MD | E-0.5/150 | % | ±0.2 | ±0.1 |
| | TD | | | | ±0.1 |
| 耐化学性 (剥离强度保持率) Chemical Resistance | 暴露化学品后 After Chemical Exposure | % | ≥80 | >90 | >90 |
| 体积电阻率 (湿热) Volume Resistivity | C-96/35/90 | MΩ·cm | ≥10 ⁶ | 5.5x10 ⁷ | 6.0x10 ⁷ |
| 表面电阻 (湿热) Surface Resistance | C-96/35/90 | MΩ | ≥10 ⁴ | 3.0x10 ⁶ | 3.5x10 ⁶ |

注释 Explanations: C = 湿热处理条件 Humidity conditioning;

E = 恒温处理条件 Temperature conditioning.

1. 与铜箔光面压合再固化后测试。Testing after laminating with shining side of copper foil in suitable condition.



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Product Code Description

SF305C 05 15

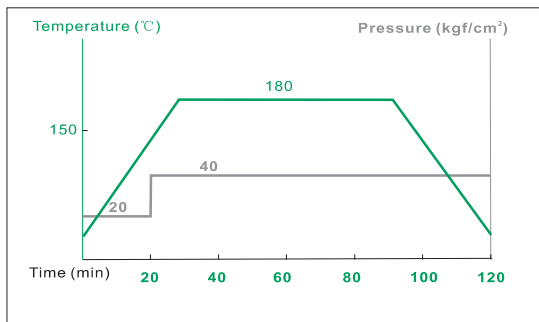
胶粘剂厚度 Adhesive Thickness: 15-15 μ m; 25-25 μ m; 35-35 μ m
 PI膜厚度 PI film Thickness: 05-12.5 μ m; 10-25 μ m
 生益覆盖膜产品编号 Shengyi Coverlay Designation

SPECIFICATIONS OF STANDARD PRODUCTS

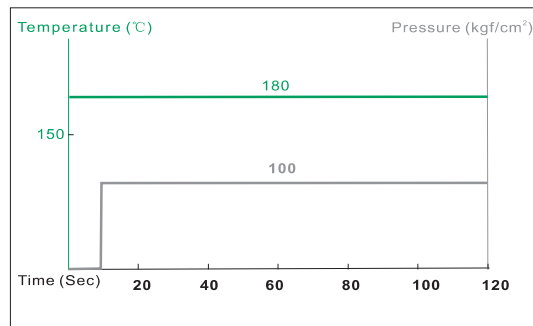
| 产品规格 Specifications | PI膜厚度 (μ m) PI film Thickness (μ m) | 胶粘剂厚度 (μ m) Adhesive Thickness (μ m) |
|------------------------|--|---|
| SF305C 0515 | 12.5 | 15 |
| SF305C 0520 | 12.5 | 20 |
| SF305C 0525 | 12.5 | 25 |
| SF305C 1025 | 25 | 25 |
| SF305C 1030 | 25 | 30 |

PRESS PROPOSE

HOT PRESSING CYCLE



FAST PRESSING CYCLE



The parameters of hot Pressure need to be adjusted according to different equipment and product specifications. After fast press, the curing condition is 150-160°C for 60-90min.

PURCHASING INFORMATION

SF305C is supplied in rolls and standard widths of 250+2/-0mm or 500+2/-0mm. Roll length is 100+2/-0m or 200+2/-0m. Other sizes could be available upon request.

STORAGE CONDITION

Stored in the room of dryness. Three months when stored in the original packaging at 4-10°C.