



# 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 Test Item	测试方法 Test Method	单位 Unit	IPC 标准值* Standard	典型值 Typical Value	
				SF305 051813DR	SF305 051813SE
剥离强度 Peel Strength 90°	IPC-TM-650,No.2.4.9 Method A Method C	N/mm	≥0.7 ≥0.525	1.1 1.0	1.3 1.2
热应力 Thermal Stress	IPC-TM-650,No.2.4.13	-	Pass	Pass	
尺寸稳定性 Dimensional Stability	IPC-TM-650,No.2.2.4 Method B	%	±0.15	MD: -0.0684 TD: 0.0691	MD: -0.0418 TD: 0.0354
耐化学性 Chemical Resistance	IPC-TM-650,No.2.3.2	%	≥80	>85	>85
吸水率 Moisture Absorption	IPC-TM-650,No.2.6.2	%	≤4	0.04	0.04
体积电阻率 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 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 Dielectric Constant	IPC-TM-650,No.2.5.5.9	-	≤4.0	3.6	3.6
介电损耗 1MHZ Dissipation Factor	IPC-TM-650,No.2.5.5.9	-	≤0.04	0.031	0.03
电气强度 Dielectric Strength	IPC-TM-650,No.2.5.6.1	V/μm	≥80	134	140
耐折性 MIT	JIS C 6471 R0.8×4.9N	Times	-	>600	>350

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

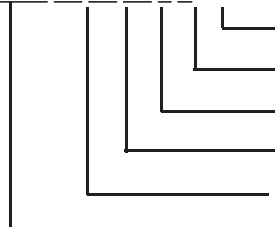


# SF305 无卤阻燃型聚酰亚胺薄膜挠性覆铜板

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

## 产品规格代码描述 Product Code Description

SF305 05 18 13 S R



- R – 压延铜箔 RA Copper Foil; E – 电解铜箔 ED Copper Foil
- S – 单面板 Single Side; D – 双面板 Double Side
- 胶层厚度 Adhesive Thickness: 13 - 13 $\mu$ m; 20 - 20 $\mu$ m
- 铜箔厚度 Copper Foil Thickness: 18 - 18 $\mu$ m; 35 - 35 $\mu$ m
- PI 膜厚度 PI Film Thickness: 05 – 12.5 $\mu$ m; 10 – 25 $\mu$ m
- 生益无卤 FCCL 产品编号 Shengyi Halogen-free FCCL Designation

## 常规产品表 SPECIFICATIONS OF STANDARD PRODUCTS

产品规格 Specifications	材料厚度 Thickness ( $\mu$ m)			铜箔类型 Copper Type	应用举例 Applications
	PI 膜 PI film	铜箔 Copper Foil	胶粘剂 Adhesive		
SF305 05*13SE	12.5	12,18	13	电解铜箔 ED	通用型 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 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 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.