



# 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, Cr<sup>6+</sup>, PBB, PBDE, etc..

## APPLICATIONS

Coverlay for FPC.

## GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data		
			IPC Standard	Typical Value	
				SF305C 0515	SF305C 1025
Resin Flow	-	mm	-	<0.15	<0.15
Peel Strength (90° ) <sup>1</sup>	A	N/mm	≥0.7	0.9	1.1
	288°C,5s		≥0.5	0.9	1.0
Thermal Stress <sup>1</sup>	300°C,10s	-	288°C,10s No delamination	No delamination	No delamination
Dimensional Stability	MD	E-0.5/150	±0.2	±0.1	±0.1
	TD			±0.1	±0.1
Chemical Resistance	After Chemical Exposure	%	≥80	>90	>90
Volume Resistivity	C-96/35/90	MΩ • cm	≥10 <sup>6</sup>	5.5x10 <sup>7</sup>	6.0x10 <sup>7</sup>
Surface Resistance	C-96/35/90	MΩ	≥10 <sup>4</sup>	3.0x10 <sup>6</sup>	3.5x10 <sup>6</sup>

Explanations: C = Humidity conditioning;

E = Temperature conditioning.

1. Testing after laminating with shining side of copper foil in suitable condition.



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## Product Code Description

SF305C 05 15

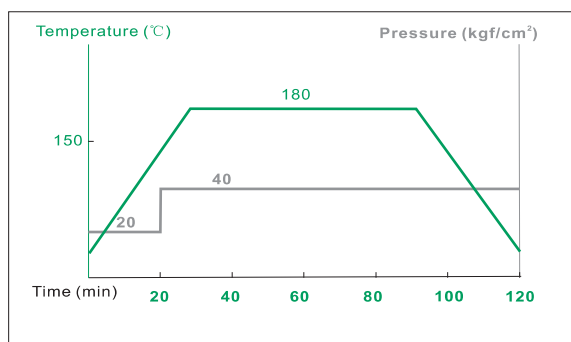
- Adhesive Thickness: 15-15  $\mu$  m; 25-25  $\mu$  m; 35-35  $\mu$  m
- PI film Thickness: 05-12.5  $\mu$  m; 10-25  $\mu$  m
- Shengyi Halogen-free Coverlay Designation

## SPECIFICATIONS OF STANDARD PRODUCTS

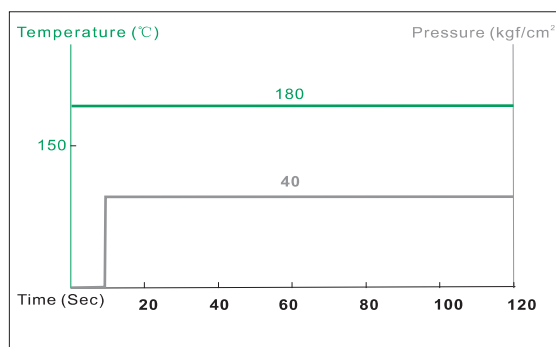
Specifications	PI film Thickness ( $\mu$ m)	Adhesive Thickness ( $\mu$ m)
SF305C 0515	12.5	15
SF305C 0520	12.5	20
SF305C 0525	12.5	25
SF305C 1025	25	25
SF305C 1030	25	30

## 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.