

# S1141

(ANSI:FR-4)UV Blocking

## 特点

- UV Blocking 和 AOI兼容，可提高PCB生产效率。
- 优良的耐热性。
- 优良尺寸稳定性。
- 优秀的机械性能和电性能。

## FEATURES

- UV Blocking and AOI compatible, so as to Increase productivity.
- Good soldering reliability .
- Good dimensional stability.
- Excellent mechanical and electrical properties.

## 应用领域

电脑、仪器仪表、摄象机、通讯设备、电子游戏机等。

## APPLICATIONS

Computer, Instrumentation, VCR, Communication equipment, Electronic game machine, etc.

## GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data		
			SPEC	Typical Value	
Tg	DSC	℃	≥ 130	140	
Flammability	C-48/23/50	-	V-0	V-0	
	E-24/125				
Volume Resistivity	After moisture resistance	MΩ-cm	≥ 10 <sup>6</sup>	5 × 10 <sup>8</sup>	
	E-24/125		≥ 10 <sup>3</sup>	5 × 10 <sup>6</sup>	
Surface Resistance	After moisture resistance	MΩ	≥ 10 <sup>4</sup>	5 × 10 <sup>7</sup>	
	E-24/125		≥ 10 <sup>3</sup>	5 × 10 <sup>6</sup>	
Arc Resistance	D-48/50+D-0.5/23	S	≥ 60	120	
Dielectric Breakdown	D-48/50+D-0.5/23	KV	≥ 40	60	
Dielectric Constant (1MHz)	C-24/23/50	-	≤ 5.4	4.6	
Dissipation Factor (1MHz)	C-24/23/50	-	≤ 0.035	0.015	
Thermal Stress	Unetched	288℃, 20s	-	No delamination	
	Etched				
Peel Strength	1oz Cu. Foil	288℃, 10s	N/mm	≥ 1.05	1.8
		125℃		≥ 0.70	1.6
Flexural Strength	LW	A	MPa	≥ 415	600
	CW			≥ 345	500
Water Absorption	D-24/23	%	≤ 0.35	0.15	
CTE Z-axis	Before Tg	TMA	μ m/m℃	-	55
	After Tg	TMA	μ m/m℃	-	260
CTI	IEC60112 Method	V	-	175	

Specimen Thickness:1.6mm

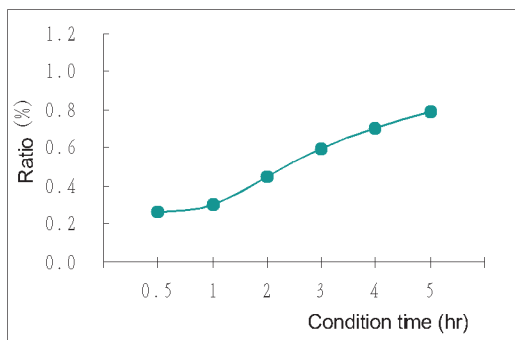
Explanations: C = Humidity conditioning;  
D = Immersion conditioning in distilled water;  
E = Temperature conditioning.

The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in ℃ and with the third digit the relative humidity.

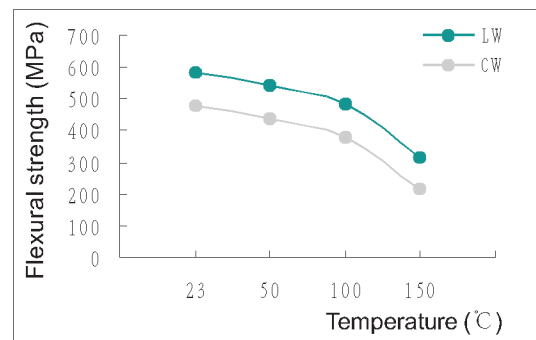
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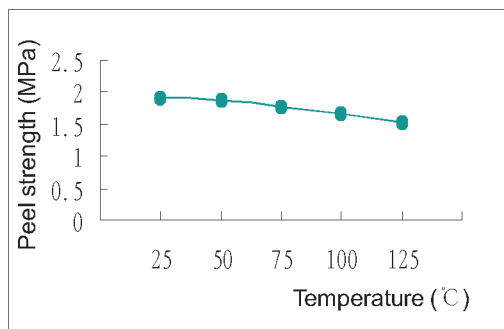
## Water absorption at pressure cooker



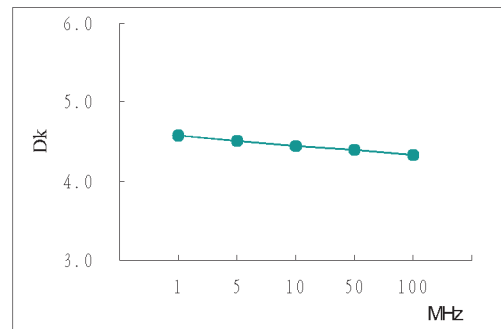
## Flexural strength



## Peel strength



## Dielectric constant



## PURCHASING INFORMATION

Thickness	Copper foil	Standard Size
0.05mm to 3.2mm	12 $\mu$ m to 105 $\mu$ m	1,020 × 1,220mm (40" × 48" ) 915 × 1,220mm (36" × 48" ) 1,070 × 1,220mm (42" × 48" )

✘ Other sheet size and thickness could be available upon request.

Сайфони  
технология