



# S1141

(ANSI:FR-4)UV Blocking

## 特点

- Tg140℃ (DSC)。
- UV Blocking/AOI兼容。
- 优良的机械加工性能。

## FEATURES

- Tg140℃ (DSC) .
- UV Blocking/AOI Compatible.
- Excellent mechanical process ability.

## 应用领域

电脑、仪器仪表、摄象机、通讯设备、电子游戏机、汽车、航空等。

## APPLICATIONS

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

## GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data		
			SPEC	Typical Value	
Tg	DSC	℃	≥135	140	
Flammability	C-48/23/50	-	V-0	V-0	
	E-24/125				
Volume Resistivity	After moisture resistance	MΩ-cm	≥10 <sup>6</sup>	5.2×10 <sup>8</sup>	
	E-24/125		≥10 <sup>3</sup>	5.2×10 <sup>6</sup>	
Surface Resistivity	After moisture resistance	MΩ	≥10 <sup>4</sup>	5.4×10 <sup>7</sup>	
	E-24/125		≥10 <sup>3</sup>	5.6×10 <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℃, solder dip	-	> 10s	60s
	Etched			No delamination	No delamination
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	%	≤0.80	0.15	
CTE Z-axis	Before Tg	TMA	μ m/m℃	-	65
	After Tg	TMA	μ m/m℃	-	300
	50~260℃	TMA	%	-	4.5
Td	10℃/min, N <sub>2</sub> , 5% Wt Loss	℃	-	310	
T260	TMA	min	-	15	
T288	TMA	min	-	2	
CTI	IEC60112 Method	V	175~250(grade3)	175	

Remarks: All the data listed above can meet IPC-4101/21 requirement.  
Specimen Thickness:1.6mm

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

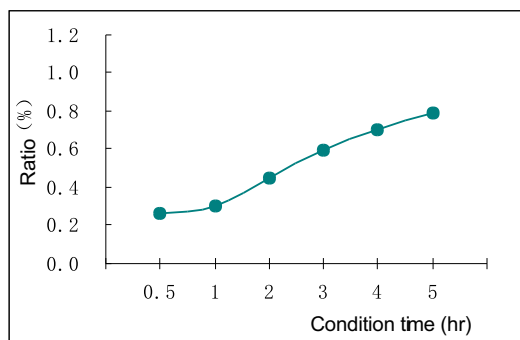
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in ℃ and with the third digit the relative humidity.



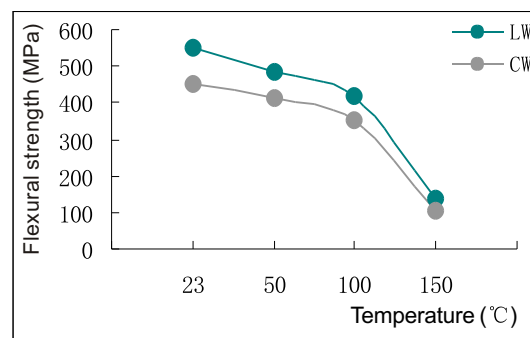
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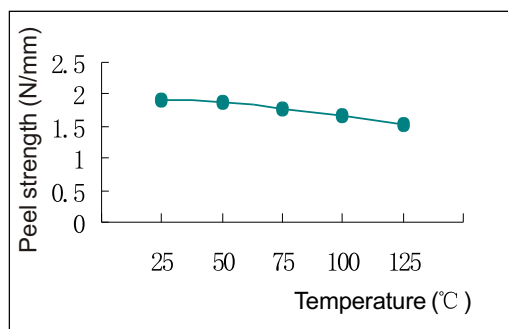
## Water absorption at pressure cooker



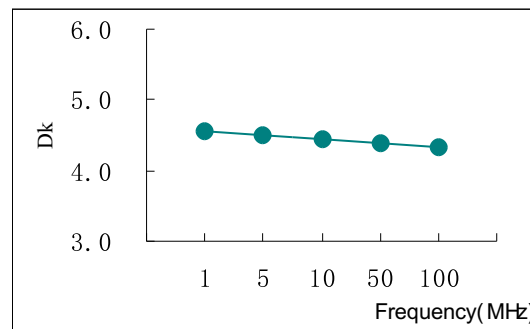
## Flexural strength



## Peel strength



## Dielectric constant



## PURCHASING INFORMATION

Thickness	Copper foil	Standard Size
0.05mm to 3.2mm	12 μ m to 105 μ 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.