



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、摄像机、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 ⁶	5.2×10 ⁸	
	E-24/125		≥10 ³	5.2×10 ⁶	
Surface Resistivity	After moisture resistance	MΩ	≥10 ⁴	5.4×10 ⁷	
	E-24/125		≥10 ³	5.6×10 ⁶	
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 ₂ , 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.

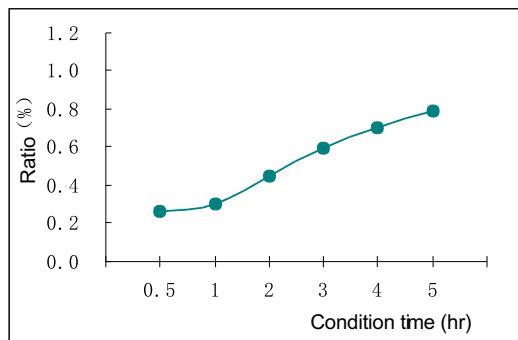
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in ℃ and with the third digit the relative humidity.



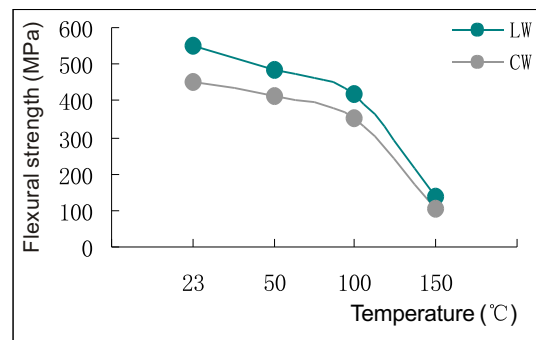
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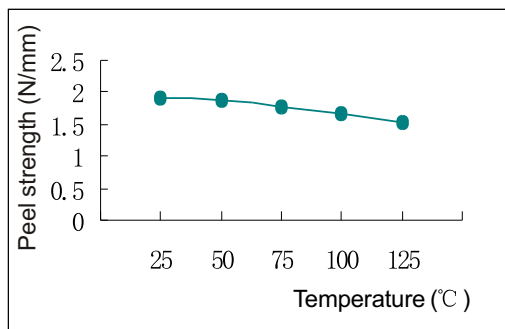
Water absorption at pressure cooker



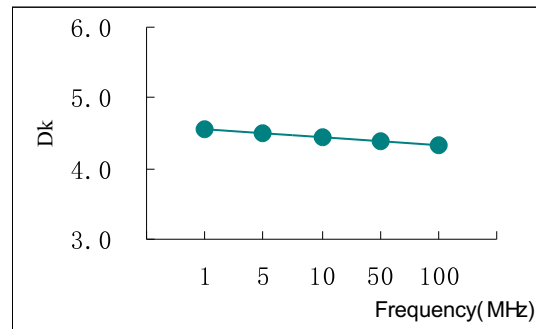
Flexural strength



Peel strength



Dielectric constant



PURCHASING INFORMATION

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

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