



S1141 170

(ANSI:FR-4)UV Blocking/ High Tg

特点

- 高Tg170℃ (DSC)。
- UV Blocking/AOI兼容。
- 优良的PCB加工性能。

应用领域

计算机及外围设备、通讯设备、仪器仪表、办公自动设备等。

FEATURES

- High Tg170℃ (DSC) .
- UV Blocking/AOI Compatible.
- Good PCB processability.

APPLICATIONS

Computer, communication equipment instrumentation, OA equipment, and etc.

GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC	℃	≥ 170	175
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	5.3×10 ⁶
Surface Resistivity	After moisture resistance	MΩ	≥ 10 ⁴	5.4×10 ⁷
	E-24/125		≥ 10 ³	5.1×10 ⁶
Arc Resistance	D-48/50+D-0.5/23	S	≥60	115
Dielectric Breakdown	D-48/50+D-0.5/23	KV	≥ 40	55
Dielectric Constant (1MHz)	C-24/23/50	-	≤ 5.4	4.5
Dissipation Factor (1MHz)	C-24/23/50	-	≤ 0.035	0.016
Thermal Stress	288℃, solder dip	-	> 10s	60s
			No delamination	No delamination
Peel Strength	288℃, 10s	N/mm	≥ 1.05	1.7
	125℃		≥ 0.70	1.5
Flexural Strength	A	MPa	≥ 415	600
			≥ 345	500
Water Absorption	D-24/23	%	≤ 0.80	0.15
CTE Z-axis	Before Tg	TMA	μ m/m℃	55
	After Tg	TMA	μ m/m℃	290
	50~260℃	TMA	%	4.0
Td	10℃/min, N ₂ , 5% Wt Loss	℃	-	300
T260	TMA	min	-	8
T288	TMA	min	-	-
CTI	IEC60112 Method	V	175~250(grade3)	200

Remarks: All the data listed above can meet IPC-4101/24 requirement.

Specimen Thickness:1.6mm

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

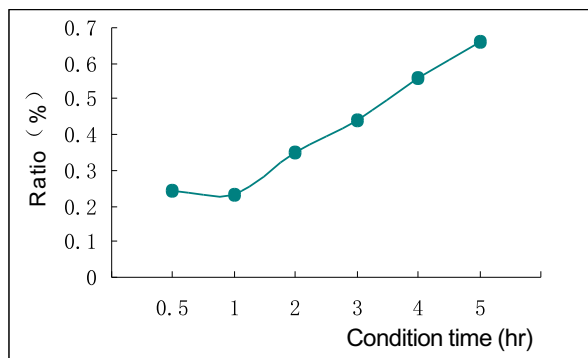
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in ℃ and with the third digit the relative humidity.



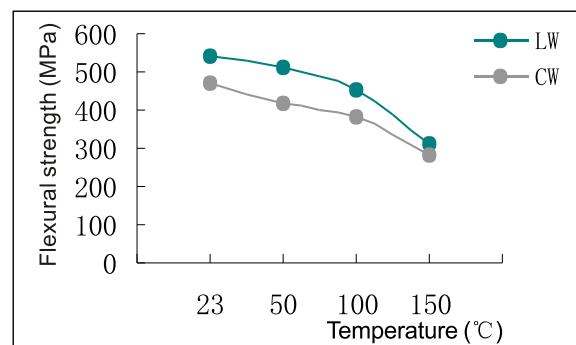
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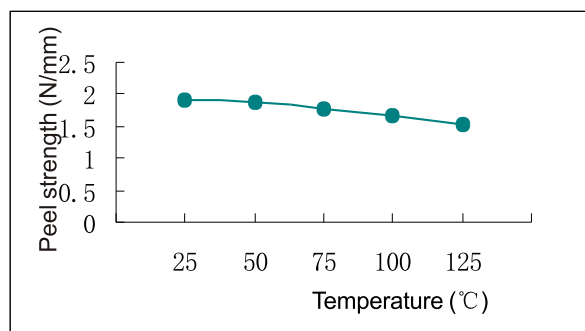
Water absorption at pressure cooker



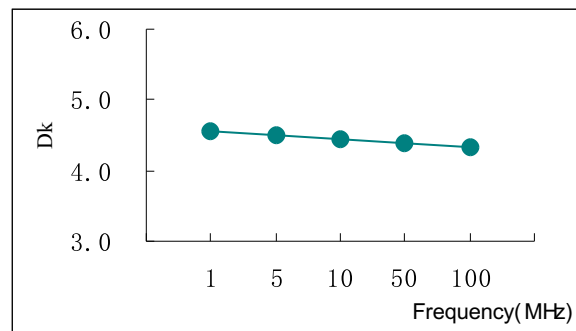
Flexural strength



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.