



S1141 150

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

特点

- Tg150℃(DSC)。
- UV Blocking/AOI兼容。
- 优良的PCB加工性能。

应用领域

电脑、仪器仪表、摄象机、通讯设备、电子游戏机、汽车电子等。

FEATURES

- Tg 150℃(DSC).
- UV Blocking/AOI compatible.
- Good PCB mechanical process ability.

APPLICATIONS

Computer, Instrumentation, VCR, Communication equipment, Electronic Toy, Automotive, etc.

GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data		
			SPEC	Typical Value	
Tg	DSC	℃	≥ 145	150	
Flammability	C-48/23/50	-	V-0	V-0	
	E-24/125+des				
Volume Resistivity	After moisture resistance	MΩ-cm	≥ 10 ⁶	4.7×10 ⁸	
	E-24/125		≥ 10 ³	5.3×10 ⁶	
Surface Resistivity	After moisture resistance	MΩ	≥ 10 ⁴	5.3×10 ⁷	
	E-24/125		≥ 10 ³	5.4×10 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	288℃, 10s	N/mm	≥ 1.05	1.8
	Cu. Foil	125℃		≥ 0.70	1.6
Flexural Strength	LW	A	MPa	≥ 415	600
	CW			≥ 345	500
Water Absorption	D-24/23	%	≤ 0.8	0.15	
CTE Z-axis	Before Tg	TMA	μ m/m℃	-	58
	After Tg	TMA	μ m/m℃	-	285
	50~260℃	TMA	%	-	4.2
Td	10℃/min, N ₂ , 5% Wt Loss	℃	-	-	310
T260	TMA	min	-	-	15
T288	TMA	min	-	-	2
CTI	IEC60112 Method	V	175~250(grade3)	-	200

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.

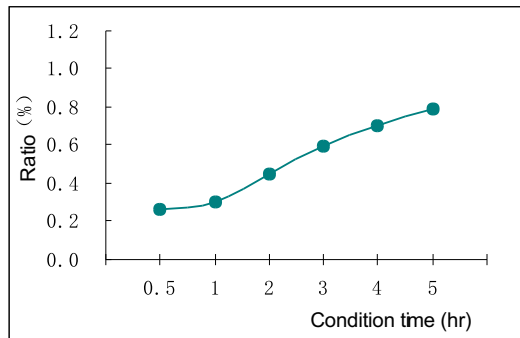
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in ℃ and with the third digit the relative humidity.



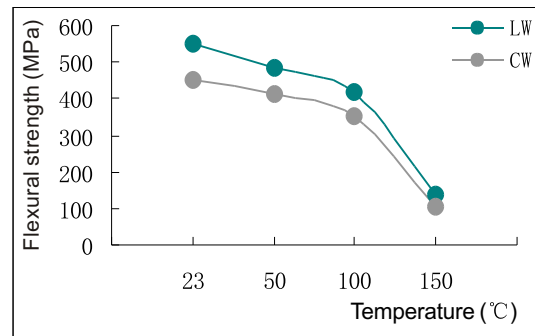
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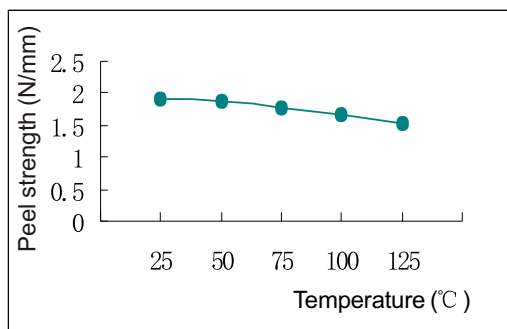
Water absorption at pressure cooker



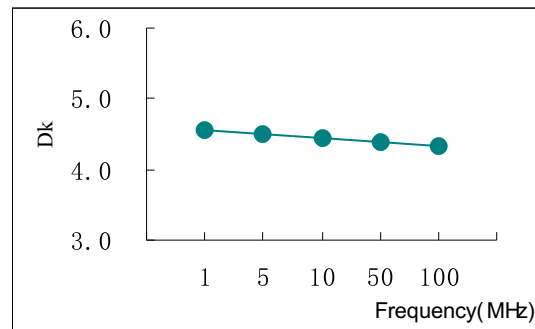
Flexural strength



Peel strength



Dielectric constant



S1141 150 VS. Conventional FR-4

Property	S1141 150	Conventional FR-4 (S1130)
Tg (°C)	150	135
Z-CTE (ppm/°C) [30~260°C]	178	205

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.