



S1600

(ANSI:FR-4) High CTI

特点

- 优异的耐漏电起痕性，CTI \geq 600V。
- UV Blocking。
- 优良的PCB加工性

FEATURES

- Excellent tracking resistance, CTI \geq 600V.
- UV Blocking.
- Good PCB processability.

应用领域

等离子显示屏、液晶显示屏、电源基板、电视机、电冰箱、洗衣机等。

APPLICATIONS

PDP,LCD,power base board, TV, refrigerator, washing machine, and etc.

GENERAL PROPERTIES

Test Item		Treatment Condition	Unit	Property Data	
				SPEC	Typical Value
Tg		DSC	℃	≥ 125	135
Flammability		C-48/23/50	-	V-0	V-0
		E-24/125			
Volume Resistivity		After moisture resistance	M Ω -cm	$\geq 10^6$	5.0×10^9
		E-24/125		$\geq 10^3$	5.0×10^7
Surface Resistivity		After moisture resistance	M Ω	$\geq 10^4$	5.0×10^6
		E-24/125		$\geq 10^3$	5.0×10^6
Arc Resistance		D-48/50+D-0.5/23	S	≥ 60	126
Dielectric Breakdown		D-48/50+D-0.5/23	KV	≥ 40	60
Dielectric Constant (1MHz)		C-24/23/50	-	≤ 5.4	4.7
Dissipation Factor (1MHz)		C-24/23/50	-	≤ 0.035	0.016
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	M Pa	≥ 415	550
	CW			≥ 345	450
Water Absorption		D-24/23	%	≤ 0.80	0.10
CTI		IEC60112 Method	V	$\geq 600(\text{grade0})$	600
CTE z-axis	Before Tg	TMA	PPM/℃	-	55
	After Tg		PPM/℃	-	308
Td		10℃/min,N ₂ ,5%Wt Loss	℃	-	310

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.

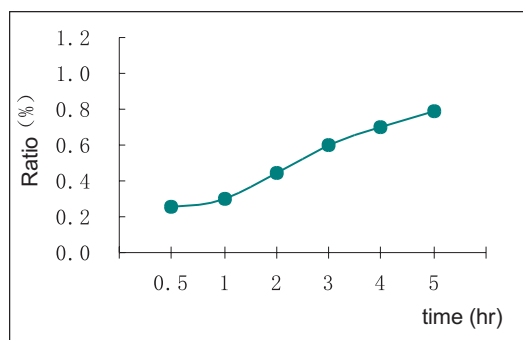
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in ℃ and with the third digit the relative humidity.



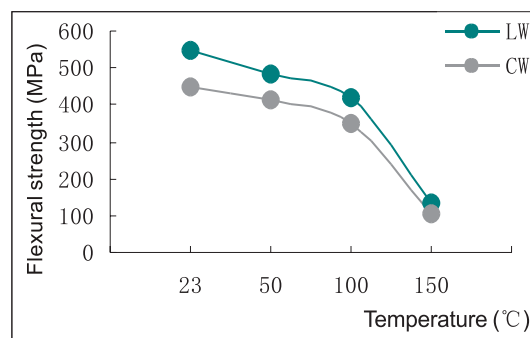
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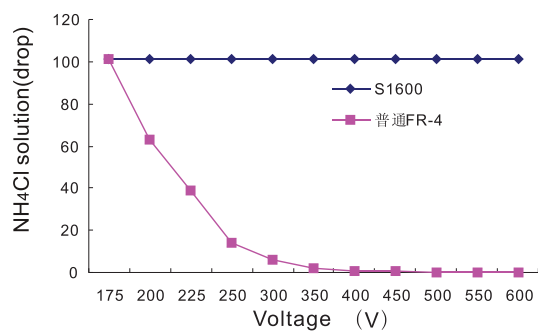
Water absorption at pressure cooker



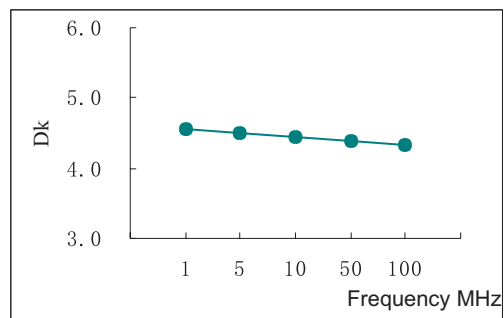
Flexural strength



The CTI difference between S1600 and standard FR-4



Dielectric constant



PURCHASING INFORMATION

Thickness	Copper foil	Standard Size	
0.8mm to 3.2mm	12 μ m to 105 μ m	1,020×1,220mm (40" × 48") 1,070×1,220mm (42" × 48")	915×1,220mm (36" × 48")

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