



S1600

(UL 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	Rating	V-0	V-0
		E-24/125			
Volume Resistivity		After moisture resistance	M Ω -cm	$\geq 10^6$	5.0×10^8
		E-24/125		$\geq 10^3$	5.0×10^6
Surface Resistivity		After moisture resistance	M Ω	$\geq 10^4$	5.0×10^7
		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	PLC 0($\geq 600V$)	PLC 0
CTE z-axis	Before Tg	TMA	PPM/℃	-	55
	After Tg		PPM/℃	-	308
Td		10℃/min,N ₂ ,5%Wt Loss	℃	-	310

Remarks: 1.Specification sheet:IPC-4101/21, is for your reference only.

2.All the typical value is based on the 1.6mm specimen,while the Tg is for specimen $\geq 0.50mm$.

3.All the typical value listed above is for your reference only, please turn to Shengyi Technology Co., Ltd. for detailed information, and all rights from this data sheet are reserved by Shengyi Technology Co., Ltd.

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

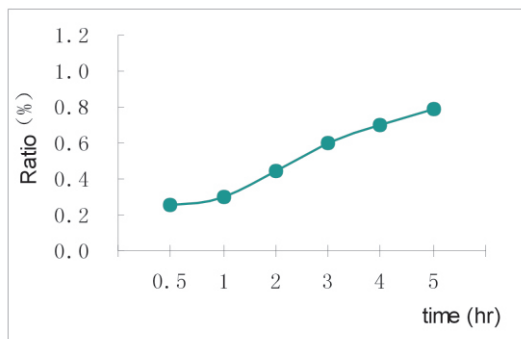
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in ℃ and with the third digit the relative humidity.



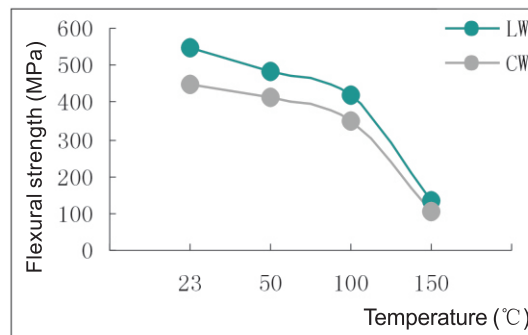
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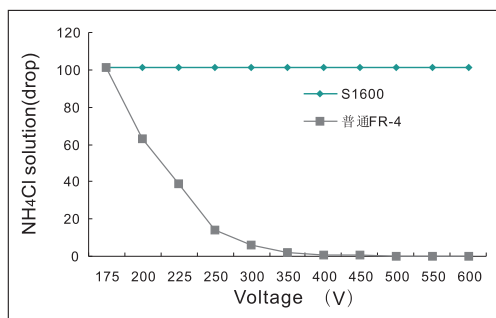
Water absorption at pressure cooker



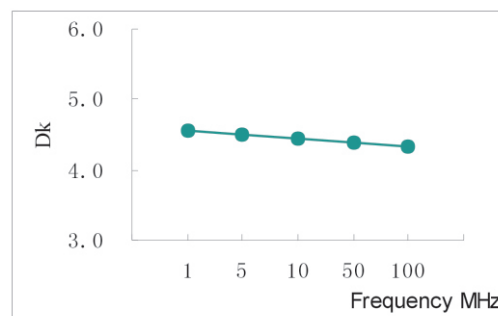
Flexural strength



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.