



S1600

(UL ANSI:FR-4) High CTI

特点

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

FEATURES

- Excellent tracking resistance, CTI≥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	°C	≥125	135	
Flammability	C-48/23/50	Rating	V-0	V-0	
	E-24/125				
Volume Resistivity	After moisture resistance	MΩ-cm	≥ 10 ⁶	5.0×10 ⁸	
	E-24/125		≥ 10 ³	5.0×10 ⁶	
Surface Resistivity	After moisture resistance	MΩ	≥ 10 ⁴	5.0×10 ⁷	
	E-24/125		≥ 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 Etched	288°C, solder dip	-	> 10s	60s
				No delamination	No delamination
Peel Strength	1oz Cu. Foil	288°C, 10s	N/mm	≥ 1.05	1.8
		125°C		≥ 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(≥600V)	PLC 0	
CTE z-axis	Before Tg	TMA	PPM/°C	-	55
	After Tg			-	308
Td	10°C/min, N ₂ , 5%Wt Loss	°C	-	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 ≥0.50mm.
 3.All the typical value listed above is for your reference only, please turn to Shengyi Sci.Tech.Co., Ltd. for detailed information, and all rights from this data sheet are reserved by Shengyi Sci.Tech.Co., Ltd.

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

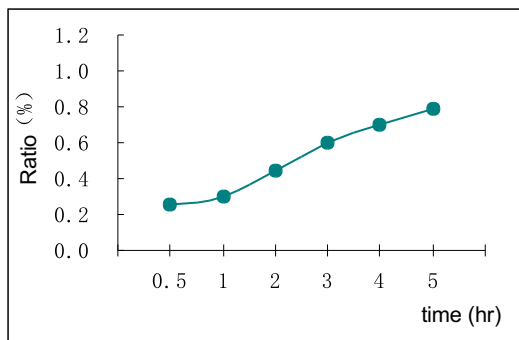
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in °C and with the third digit the relative humidity.



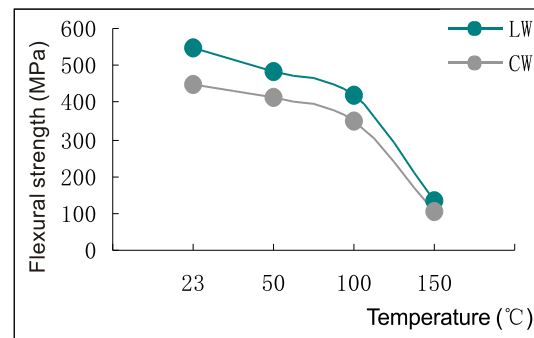
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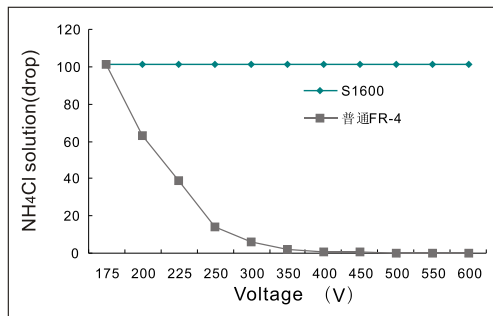
Water absorption at pressure cooker



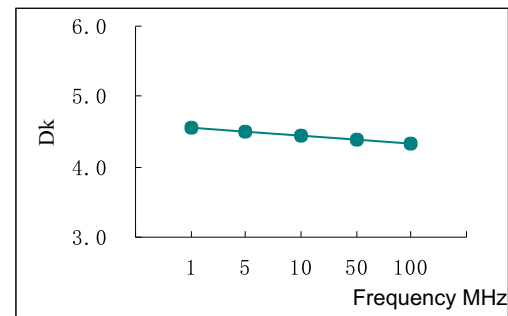
Flexural strength



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.