



S1600

(ANSI:FR-4) High CTI

特点

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

FEATURES

- Excellent tracking resistance, CTI≥600.
- UV Blocking.
- Good PCB processability.

应用领域

电源基板、电视机、电冰箱、洗衣机等。

APPLICATIONS

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	-	V-0	V-0	
	E-24/125				
Volume Resistivity	After moisture resistance	MΩ-cm	≥ 10 ⁶	5.0×10 ⁹	
	E-24/125		≥ 10 ³	5.0×10 ⁷	
Surface Resistivity	After moisture resistance	MΩ	≥ 10 ⁴	5.0×10 ⁶	
	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	288°C, 10s	N/mm	≥ 1.05	1.8
	Cu. Foil			125°C	≥ 0.70
Flexural Strength	LW	A	MPa	≥ 415	550
	CW			≥ 345	450
Water Absorption	D-24/23	%	≤ 0.80	0.10	
CTI	IEC60112 Method	V	≥600(grade0)	600	
CTE z-axis	Before Tg	TMA	PPM/°C	-	55
	After Tg			-	308
Td	10°C/min, N ₂ , 5%Wt Loss	°C	-	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.

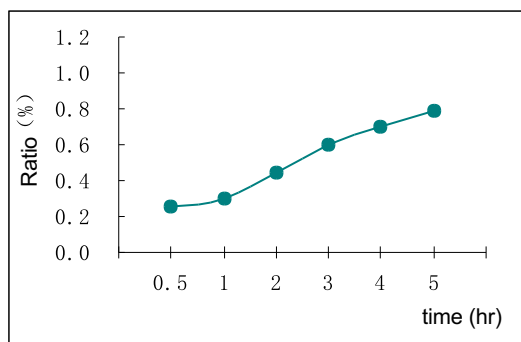
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in °C and with the third digit the relative humidity.



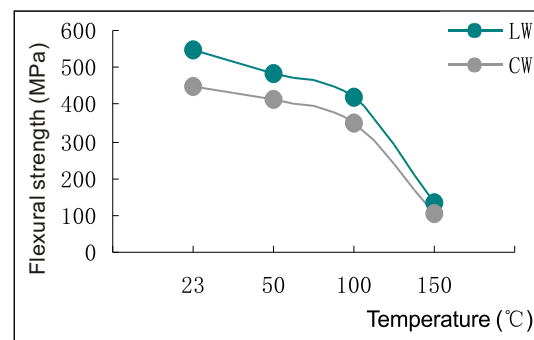
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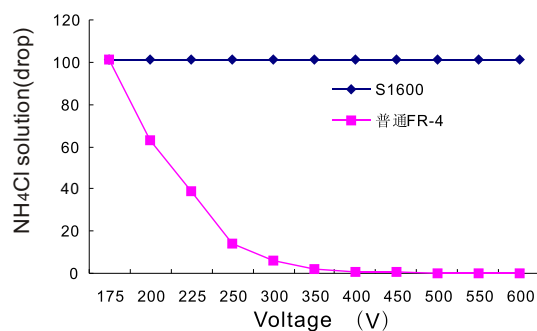
■ **Water absorption at pressure cooker**



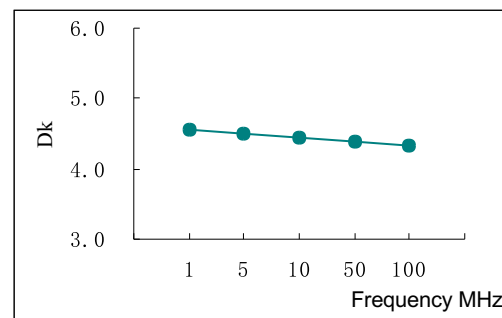
■ **Flexural strength**



■ **The CTI difference between S1600 and normal 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") 915×1,220mm (36" × 48") 1,070×1,220mm (42" × 48")

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