

# S1600

(ANSI:FR-4) High CTI

## 特点

- 优异的耐漏电起痕性，CTI≥600。
- UV Blocking，可提高PCB生产效率。
- 加工性能及其他性能与普通FR-4相同。

## FEATURES

- Superior tracking resistance, CTI≥600.
- UV Blocking, so as to increase productivity.
- PCB processing and other properties similar to conventional FR-4.

## 应用领域

电源基板、电视机、电冰箱、洗衣机等。

## APPLICATIONS

Power supply, TV, refrigerator, washing machine, 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 <sup>6</sup>	5×10 <sup>9</sup>	
	E-24/125		≥ 10 <sup>3</sup>	5×10 <sup>7</sup>	
Surface Resistance	After moisture resistance	MΩ	≥ 10 <sup>4</sup>	5×10 <sup>6</sup>	
	E-24/125		≥ 10 <sup>3</sup>	5×10 <sup>6</sup>	
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, 20s	-	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	Mpa	≥ 415	550
	CW			≥ 345	450
Water Absorption	D-24/23	%	≤ 0.35	0.10	
CTI	IEC-112 Method	V	≥ 600	600	
CTE z-axis	Before Tg	TMA	μ m/m°C	-	55
	After Tg		μ m/m°C	-	308

Specimen Thickness: 1.6mm

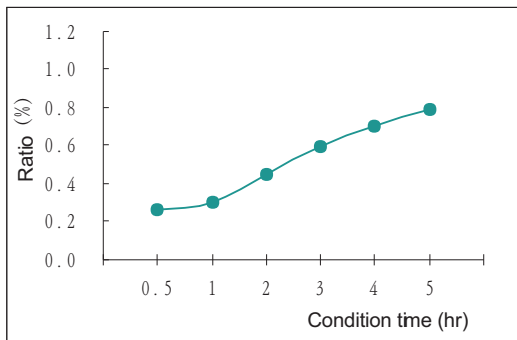
Explanations: C = Humidity conditioning;  
D = Immersion conditioning in distilled water;  
E = Temperature conditioning.

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.

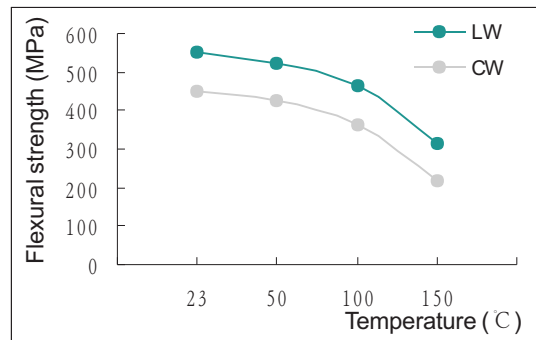
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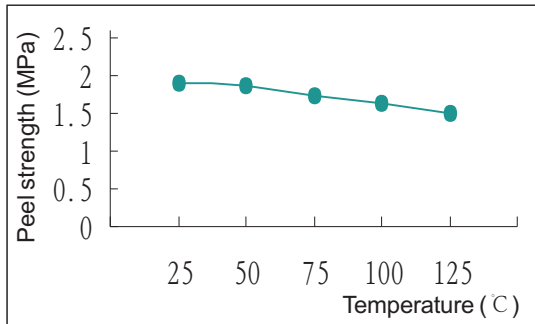
## Water absorption at pressure cooker



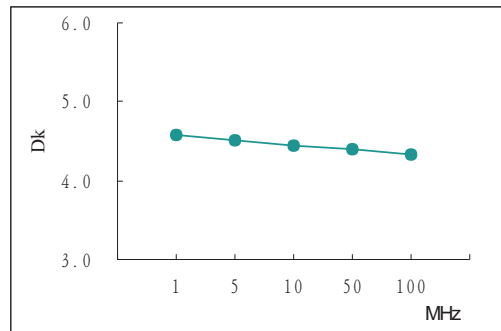
## Flexural strength



## Peel strength



## Dielectric constant



## PURCHASING INFORMATION

Thickness	Copper foil	Standard Size
0.1mm to 3.2mm	12 $\mu$ m to 105 $\mu$ m	1,020 $\times$ 1,220mm (40" $\times$ 48" ) 915 $\times$ 1,220mm (36" $\times$ 48" ) 1,070 $\times$ 1,220mm (42" $\times$ 48" )

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