



# 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		125	135
Flammability	C-48/23/50	-	V-0	V-0
	E-24/125			
Volume Resistivity	After moisture resistance	M -cm	10 <sup>6</sup>	5 × 10 <sup>9</sup>
	E-24/125		10 <sup>3</sup>	5 × 10 <sup>7</sup>
Surface Resistivity	After moisture resistance	M	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	-	No delamination	No delamination
	Etched			
Peel Strength	1oz Cu. Foil	N/mm	1.05	1.8
	125		0.70	1.6
Flexural Strength	LW	MPa	415	550
	CW		345	450
Water Absorption	D-24/23	%	0.35	0.10
CTI	IEC60112 Method	V	600	600
CTE z-axis	Before Tg	TMA	-	55
	After Tg		-	308

Specimen Thickness:1.6mm

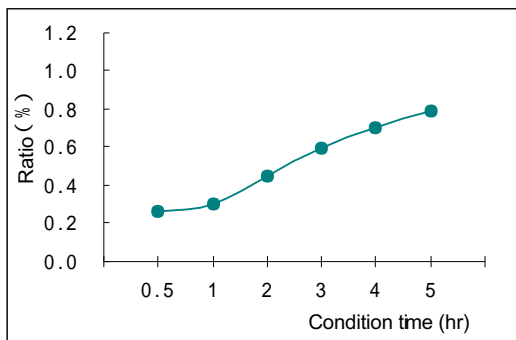
Explanations: C = Humidity conditioning;  
D = Immersion conditioning in distilled water;  
E = Temperature conditioning.

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 and with the third digit the relative humidity.

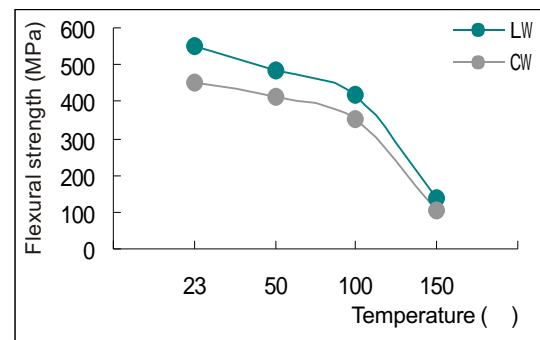
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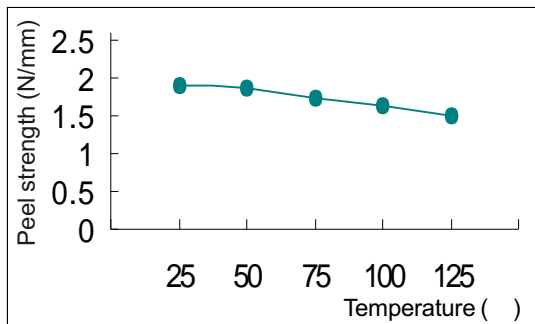
## Water absorption at pressure cooker



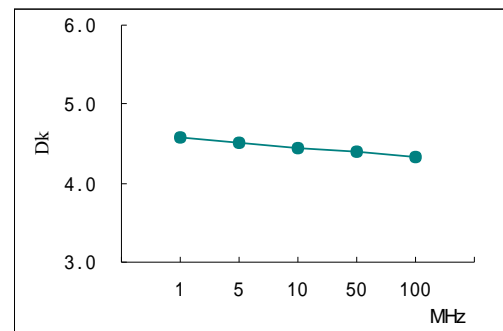
## Flexural strength



## Peel strength



## Dielectric constant



## PURCHASING INFORMATION

Thickness	Copper foil	Standard Size	
0.8mm to 3.2mm	12 $\mu$ m to 105 $\mu$ m	1,020 x 1,220mm (40 x 48 )	915 x 1,220mm (36 x 48 )
		1,070 x 1,220mm (42 x 48 )	

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