

# S1130

(ANSI:FR-4) Conventional FR-4

## 特点

- 优良的尺寸稳定性。
- 优秀的耐热性。
- 优秀的机械性能和电性能。

## FEATURES

- Excellent dimensional stability.
- Good soldering reliability.
- Excellent mechanical and electrical properties.

## 应用领域

电脑、仪器仪表、摄象机、电视机、电子游戏机等。

## APPLICATIONS

Computer, Instrumentation, VCR, Television, Electronic game 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>8</sup>
	E-24/125		10 <sup>3</sup>	5 × 10 <sup>6</sup>
Surface Resistance	After moisture resistance	M	10 <sup>4</sup>	5 × 10 <sup>7</sup>
	E-24/125		10 <sup>3</sup>	5 × 10 <sup>6</sup>
Arc Resistance	D-48/50+D-0.5/23	S	60	120
Dielectric Breakdown	D-48/50+D-0.5/23	KV	40	60
Dielectric Constant (1MHz)	C-24/23/50	-	5.4	4.6
Dissipation Factor (1MHz)	C-24/23/50	-	0.035	0.016
Thermal Stress	Unetched	-	No delamination	No delamination
	Etched			
Peel Strength	1oz	N/mm	1.05	1.8
	Cu. Foil		0.70	1.6
Flexural Strength	LW	MPa	415	600
	CW		345	500
Water Absorption	D-24/23	%	0.35	0.15
CTE Z-axis	Before Tg	TMA	-	55
	After Tg	TMA	-	270
CTI	IEC60112 Method	V	-	200

Specimen Thickness:1.6mm

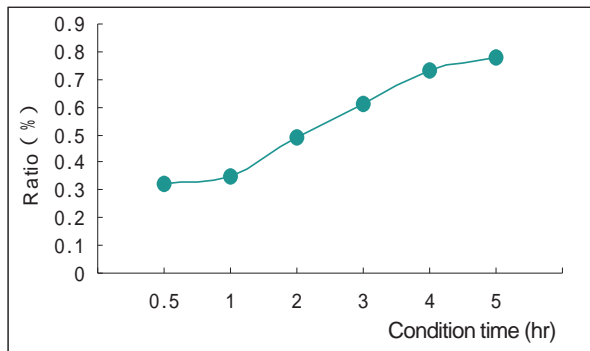
Explanations: C = Humidity conditioning;  
D = Immersion conditioning in distilled water;  
E = Temperature conditioning.

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.

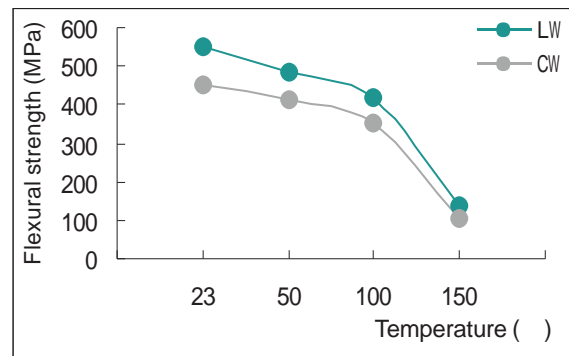
# S1130

(ANSI:FR-4) Conventional FR-4

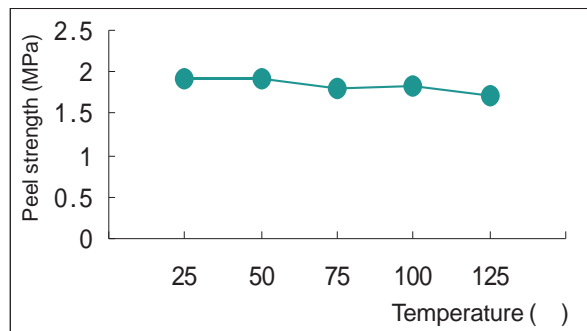
## Water absorption at pressure cooker



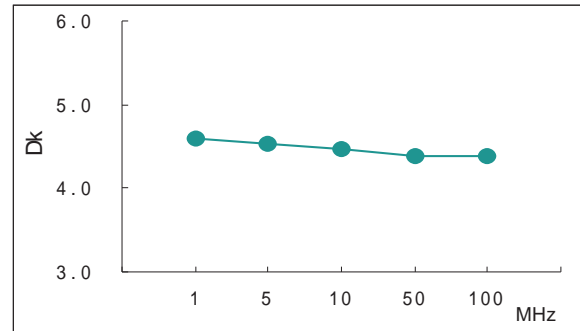
## Flexural strength



## Peel strength



## Dielectric constant



## PURCHASING INFORMATION

Thickness	Copper foil	Standard Size	
		0.05mm to 3.2mm	12 $\mu$ m to 105 $\mu$ m

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