

# S3110

(UL ANSI:CEM-1)

## 特点

- 良好的耐热性、耐湿性、平整性，良好的机械性能和电性能。

## FEATURES

- Good thermal reliability and moisture resistance, lower warpage, good mechanical properties and electrical properties.

## 应用领域

家用电器、显示器、电源基板、键盘仪器仪表、游戏机等。

## APPLICATIONS

Home electrical appliance, display, power supply, keyboard, instrument, game machine, and etc.

## GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC	°C	-	110
Flammability	C-48/23/50	Rating	V-0	V-0
	E-24/125			
Volume Resistivity	C-96/35/90	MΩ-cm	≥ 10 <sup>6</sup>	7.8×10 <sup>8</sup>
	E-24/125		≥ 10 <sup>3</sup>	2.9×10 <sup>6</sup>
Surface Resistivity	C-96/35/90	MΩ	≥ 10 <sup>4</sup>	5.6×10 <sup>7</sup>
	E-24/125		≥ 10 <sup>3</sup>	2.8×10 <sup>6</sup>
Arc Resistance	D-48/50+D-0.5/23	S	≥ 60	118
Dielectric Breakdown	D-48/50+D-0.5/23	KV	≥ 40	45+Kv NB
Dielectric Constant (1MHz)	C-24/23/50	-	≤ 5.4	4.4
Dissipation Factor (1MHz)	C-24/23/50	-	≤ 0.035	0.022
Thermal Stress	Unetched	288°C	10s	20s
	Etched		No delamination	No delamination
Peel Strength	1oz Cu. Foil	288°C, 10s	≥ 1.05	1.80
		125°C	-	1.60
Flexural Strength	LW	A	≥ 242	420
	CW		≥ 172	358
Water Absorption	D-24/23	%	≤ 0.50	0.13
CTE z-axis	Before Tg	TMA	μ m/m°C	-
			μ m/m°C	-
			%	-
CTI	IEC60112 Method	V	PLC2(250V-390V)	400

Remarks: 1.Specification sheet:IPC-4101/10, 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 Technology Co., Ltd. for detailed information, and all rights from this data sheet are reserved by Shengyi Technology Co., Ltd.

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

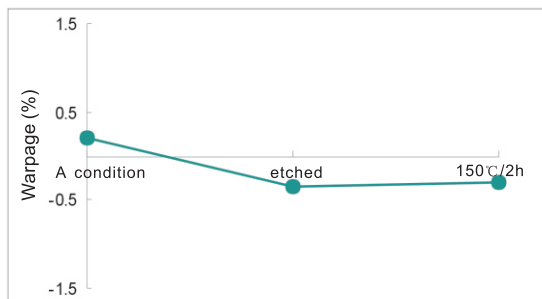
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in °C and with the third digit the relative humidity.



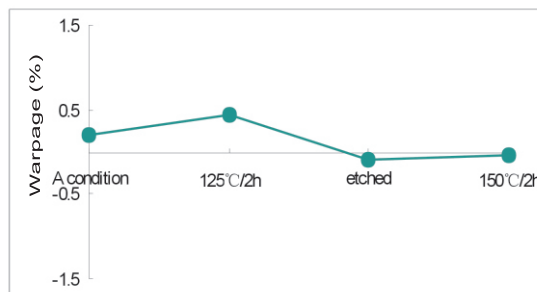
# S3110

(UL ANSI:CEM-1)

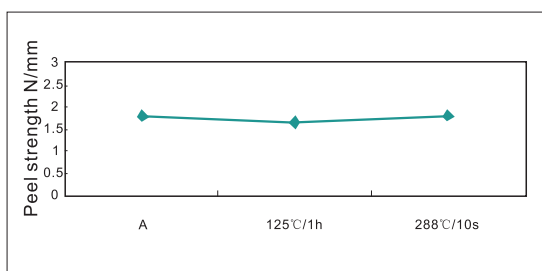
## ■ Warpage of S3110 (No-treating)



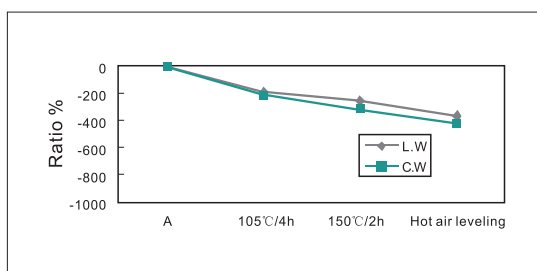
## ■ Warpage of S3110 (After treating: 125°C 2hr)



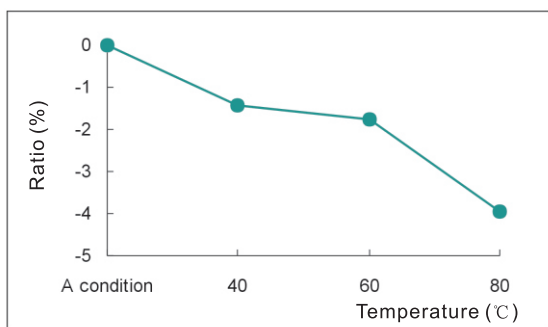
## ■ Peel strength



## ■ Dimensional stability



## ■ Hole diameter shrinkage Punching process



❖ Specimen Thickness: 1.6mm single side board

## PURCHASING INFORMATION

Thickness	Copper foil	Standard Size	
0.63mm to 3.2mm	18 μ m	1,020 × 1,220mm (40" × 48" )	915 × 1,220mm (36" × 48" )
	to 105 μ m	1,070 × 1,220mm (42" × 48" )	

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