

# S2130

(ANSI:CEM-3)

## 特点

- 优秀的机械加工性，可冲孔加工，钻孔加工钻头使用寿命可延长2-5倍。
- 电性能与FR-4相当，加工工艺与FR-4相同。
- PTH可靠性与FR-4相当的机械性能和电性能。

## FEATURES

- Excellent mechanical processability, punching process applicable, longer drill bit life up to 2-5 times.
- Electrical properties and PCB processing similar to FR-4.
- Excellent PTH reliability equivalent to FR-4.

## 应用领域

仪器仪表、信息家电、汽车电子、自动柜员机、摄象机等。

## APPLICATIONS

Test & measurement equipment, Information home appliances, Car electronics, ATM, VCR, etc.

## GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC	℃	-	132
Flammability	C-48/23/50	-	V-0	V-0
	E-24/125			
Volume Resistivity	C-96/35/90	MΩ-cm	≥ 10 <sup>6</sup>	5×10 <sup>8</sup>
	E-24/125		≥ 10 <sup>3</sup>	5×10 <sup>6</sup>
Surface Resistance	C-96/35/90	MΩ	≥ 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	115
Dielectric Breakdown	D-48/50+D-0.5/23	KV	≥ 40	55
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 Etched	-	No delamination	288℃/20s
				No delamination
Peel Strength	1oz Cu. Foil	N/mm	≥ 1.05	2.10
			105℃	≥ 0.70
Flexural Strength	LW CW	MPa	≥ 276	400
			A	≥ 186
Water Absorption	D-24/23	%	≤ 0.35	0.11
CTE z-axis	Before Tg After Tg	TMA	μ m/m℃	46
			μ m/m℃	334
CTI	IEC60112 Method	V	-	225

Specimen Thickness:1.6mm

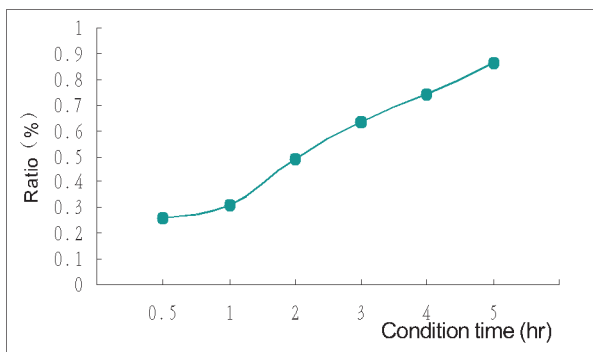
Explanations: C = Humidity conditioning;  
D = Immersion conditioning in distilled water;  
E = Temperature conditioning.

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.

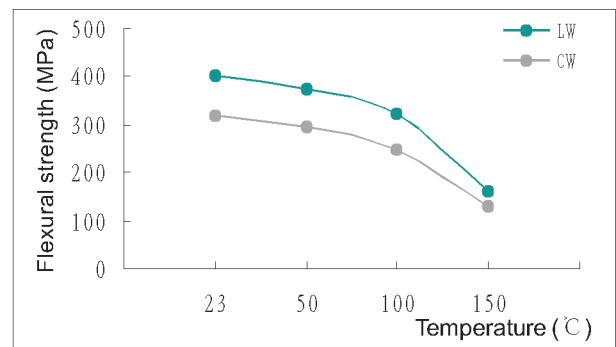
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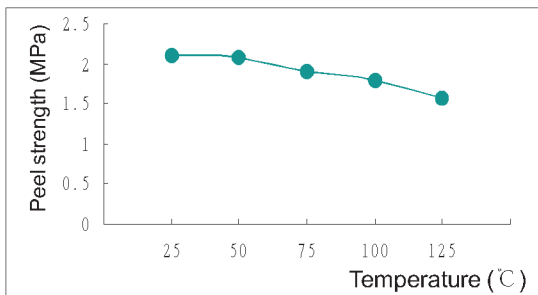
## Water absorption at pressure cooker



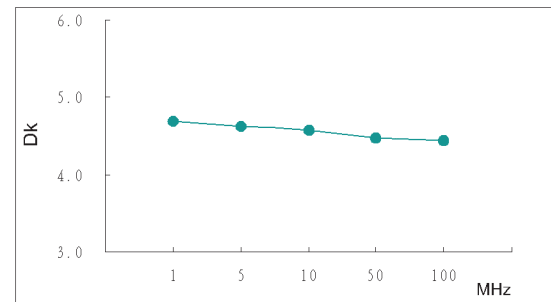
## Flexural strength



## Peel strength



## Dielectric constant



## PURCHASING INFORMATION

Thickness	Copper foil	Standard Size	
0.6mm to 3.2mm	18 $\mu$ m	1,020 × 1,220mm (40" × 48" )	915 × 1,220mm (36" × 48" )
	to 105 $\mu$ m	1,070 × 1,220mm (42" × 48" )	

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