

# S2136

(ANSI:CEM-3) CEM-3 for LED Display

## 特点

- 基材白色，不透明，遮光性和耐泛黄性好。
- 优秀的机械加工性，可冲孔加工。
- 电性能约FR-4相当，加工工艺与FR-4相同。

## FEATURES

- White and opaque with good color-change resistance.
- Excellent mechanical processability, punching process applicable, longer drill bit life up to 2-5 times.
- Electrical properties and PCB processing similar to FR-4.

## 应用领域

非常适合制作LED显示用印制线路板。

## APPLICATIONS

Especially suitable for making PCB for LED display.

## GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC	°C	-	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 Resistivity	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	4.7
Dissipation Factor (1MHz)	C-24/23/50	-	≤ 0.035	0.016
Thermal Stress	Unetched	260°C, 20s	-	No delamination
	Etched			
Peel Strength	1oz	260°C, 10s	N/mm	≥ 1.05
	Cu. Foil			105°C
Flexural Strength	LW	A	MPa	≥ 276
	CW			≥ 186
Water Absorption	D-24/23	%	≤ 0.35	0.12
CTE z-axis	Before Tg	TMA	μm/m°C	-
	After Tg		μm/m°C	-

Specimen Thickness: 1.6mm

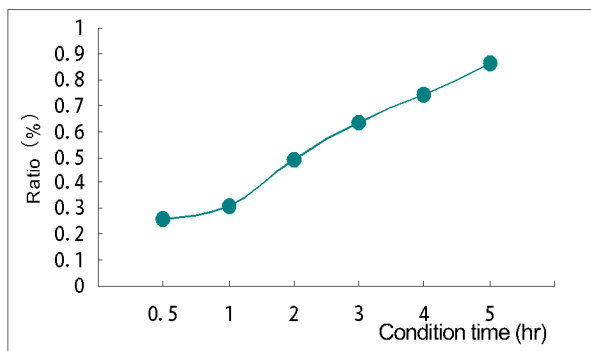
Explanations: C = Humidity conditioning;  
D = Immersion conditioning in distilled water;  
E = Temperature conditioning.

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.

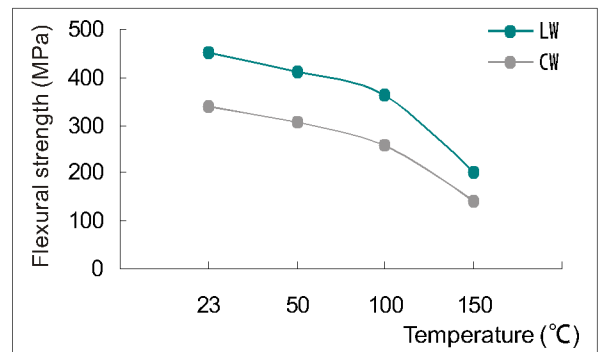
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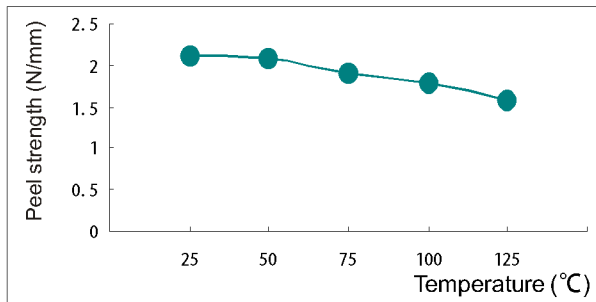
## Water absorption at pressure cooker



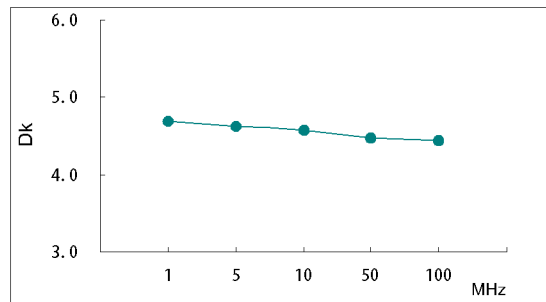
## Flexural strength



## Peel strength



## Dielectric constant



## PURCHASING INFORMATION

Thickness	Copper foil	Standard Size	
0.6mm 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.