



# S2131

(UL ANSI:CEM-3) UV Blocking

## FEATURES

- Excellent mechanical process ability, longer drill bit life.
- UV Blocking and AOI compatible.
- Electrical properties equivalent to FR-4.

## APPLICATIONS

Apparatus and instrument, home appliance, automotive, ATM, game machine, and etc.

## GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC	°C	≥120	130
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>	5.4×10 <sup>8</sup>
	E-24/125		≥ 10 <sup>3</sup>	3.2×10 <sup>6</sup>
Surface Resistivity	C-96/35/90	MΩ	≥ 10 <sup>4</sup>	7.6×10 <sup>7</sup>
	E-24/125		≥ 10 <sup>3</sup>	8.5×10 <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	45+Kv NB
Dielectric Constant (1MHz)	C-24/23/50	-	≤ 5.4	4.5
Dissipation Factor (1MHz)	C-24/23/50	-	≤ 0.035	0.016
Thermal Stress	Unetched	288°C	20s No delamination	30s No delamination
	Etched			
Peel Strength	1oz	288°C, 10s	N/mm	≥ 1.05
	Cu. Foil			125°C
Flexural Strength	LW	A	MPa	≥ 276
	CW			≥ 186
Water Absorption	D-24/23	%	≤ 0.5	0.11
CTE, z-axis	Before Tg	TMA	μ m/m°C	-
	After Tg		μ m/m°C	-
	50~260°C		%	-
CTI	IEC60112 Method	V	PLC 3(175V--249V)	PLC 3
UV Blocking	A	%	<0.10	0.048

Remarks: 1.Specification sheet:IPC-4101/12, 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 Sci.Tech.Co., Ltd . for detailed information, and all rights from this data sheet are reserved by Shengyi Sci.Tech.Co., Ltd .

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

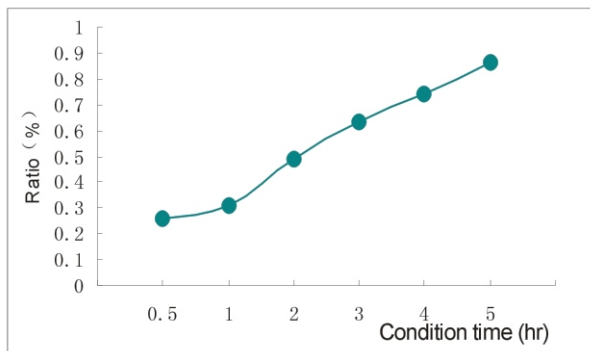
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in °C and with the third digit the relative humidity.



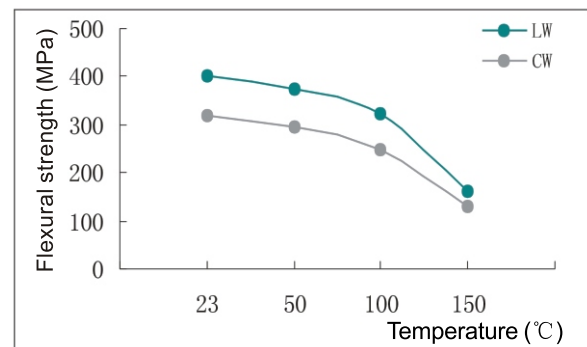
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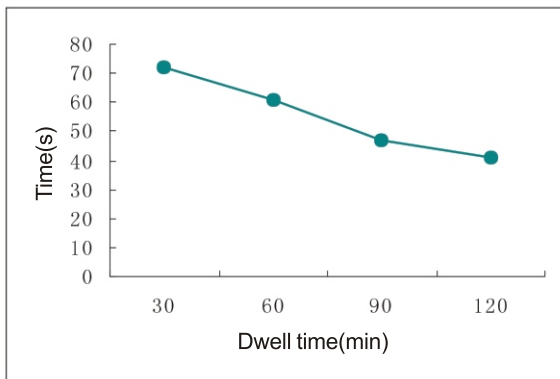
## Water absorption at pressure cooker



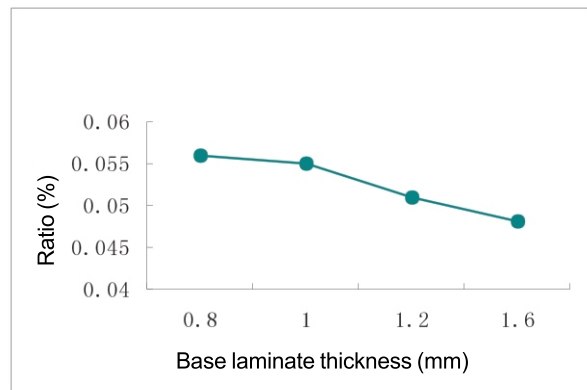
## Flexural strength



## Solder dip after PCT



## UV Blocking characteristics of laminates



## PURCHASING INFORMATION

Thickness	Copper foil	Standard Size	
0.6mm 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.