



S2600

(UL ANSI:CEM-3) High CTI

FEATURES

- Excellent tracking resistance, CTI \geq 600V.
- Excellent mechanical process ability.
- Electrical properties equivalent to FR-4.

APPLICATIONS

Power base board, refrigerator, washing machine, electronic game machine, air-condition, etc.

GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC	°C	≥ 120	126
Flammability	C-48/23/50	Rating	V-0	V-0
	E-24/125			
Volume Resistivity	C-96/35/90	M Ω -cm	$\geq 10^6$	1.1×10^8
	E-24/125		$\geq 10^3$	3.4×10^6
Surface Resistivity	C-96/35/90	M Ω	$\geq 10^4$	1.6×10^7
	E-24/125		$\geq 10^3$	3.4×10^6
Arc Resistance	D-48/50+D-0.5/23	S	≥ 60	129
Dielectric Breakdown	D-48/50+D-0.5/23	KV	≥ 40	45+Kv NB
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	288°C	20s No delamination	30s No delamination
	Etched			
Peel Strength	1oz	288°C, 10s	N/mm	≥ 1.05
	Cu. Foil			
Flexural Strength	LW	A	MPa	≥ 276
	CW			≥ 186
Water Absorption	D-24/23	%	≤ 0.5	0.10
CTE, z-axis	Before Tg	TMA	μ m/m°C	60
	After Tg		μ m/m°C	340
	50~260°C		%	5.2
CTI	IEC60112 Method	V	PLC 0(\geq 600V)	PLC 0

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 \geq 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.

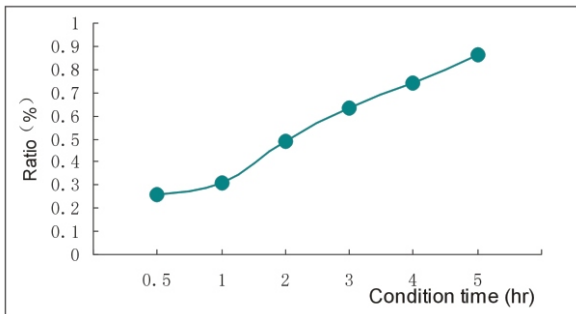
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in °C and with the third digit the relative humidity.



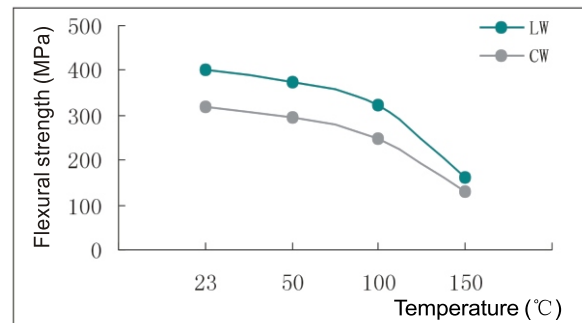
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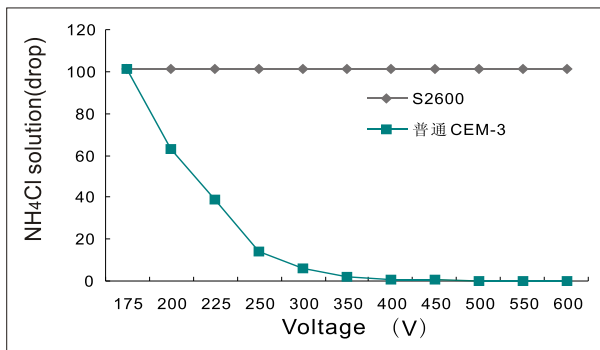
Water absorption at pressure cooker



Flexural strength



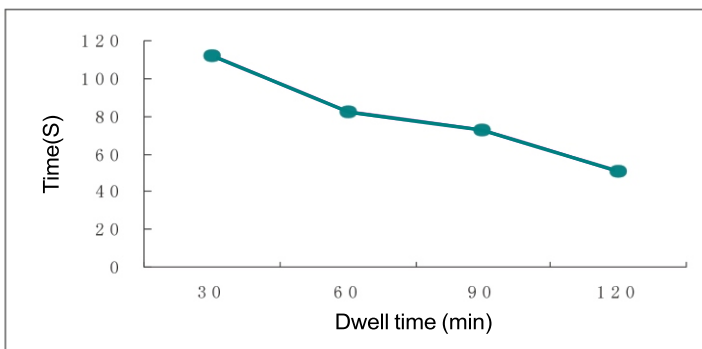
The CTI difference between S2600 and standard CEM-3



CTI Testing Machine



Solder dip after PCT (288°C)



PURCHASING INFORMATION

Thickness	Copper foil	Standard Size	
0.8mm to 3.2mm	18 μ m to 105 μ m	1,020×1,220mm (40" ×48")	915×1,220mm (36" ×48")
		1,070×1,220mm (42" ×48")	

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