

S1130

(ANSI:FR-4) Conventional FR-4

特点

- 优良尺寸稳定性。
- 优秀的耐热性。
- 优秀的机械性能和电性能。

FEATURES

- Excellent dimensional stability.
- Good soldering reliability.
- Excellent mechanical and electrical properties.

应用领域

电脑、仪器仪表、摄像机、电视机、电子游戏机等。

APPLICATIONS

Computer, Instrumentation, VCR, Television, Electronic game machine, etc.

GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC	℃	≥ 125	135
Flammability	C-48/23/50	-	V-0	V-0
	E-24/125			
Volume Resistivity	After moisture resistance	MΩ-cm	≥ 10 ⁶	5 × 10 ⁸
	E-24/125		≥ 10 ³	5 × 10 ⁶
Surface Resistance	After moisture resistance	MΩ	≥ 10 ⁴	5 × 10 ⁷
	E-24/125		≥ 10 ³	5 × 10 ⁶
Arc Resistance	D-48/50+D-0.5/23	S	≥ 60	120
Dielectric Breakdown	D-48/50+D-0.5/23	KV	≥ 40	60
Dielectric Constant (1MHz)	C-24/23/50	-	≤ 5.4	4.6
Dissipation Factor (1MHz)	C-24/23/50	-	≤ 0.035	0.016
Thermal Stress	288℃, 20s	-	No delamination	No delamination
Peel Strength	288℃, 10s	N/mm	≥ 1.05	1.8
Flexural Strength	A	MPa	≥ 0.70	1.6
			LW	≥ 415
Water Absorption	D-24/23	%	≥ 345	500
			CW	≤ 0.35
CTE Z-axis	Before Tg	TMA	-	55
	After Tg	TMA	-	270
CTI	IEC60112 Method	V	-	200

Specimen Thickness:1.6mm

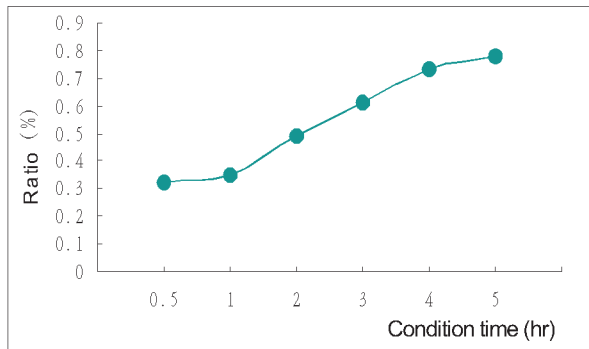
Explanations: C = Humidity conditioning;
D = Immersion conditioning in distilled water;
E = Temperature conditioning.

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.

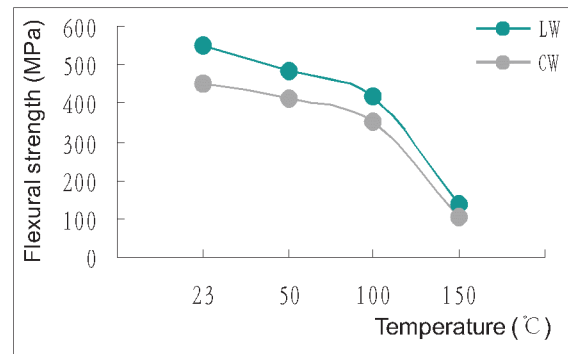
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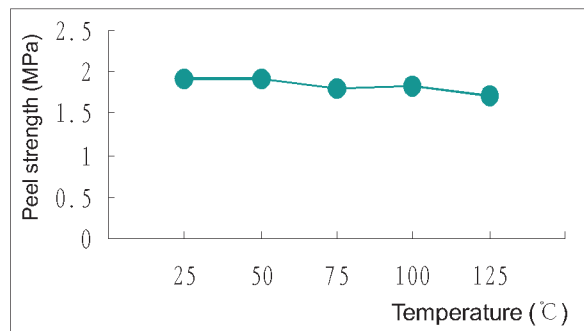
Water absorption at pressure cooker



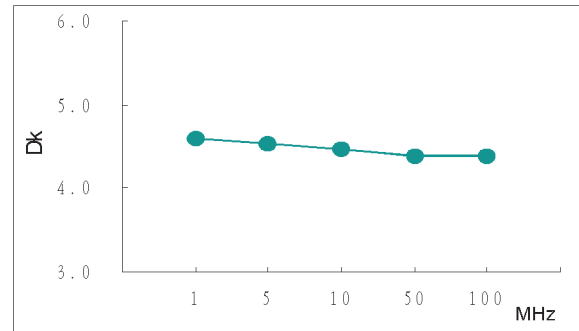
Flexural strength



Peel strength



Dielectric constant



PURCHASING INFORMATION

Thickness	Copper foil	Standard Size
0.05mm to 3.2mm	12 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.