广东生益科技股份有限公司
GUANGDONG SHENGYI SCI.TECH

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。

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。

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.

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	≥ 10^6	5×10^8
		E-24/125		≥ 10^3	5×10^6
Surface Resistance		C-96/35/90	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	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	260℃,20s	-	No delamination	288℃/20s No delamination
	Etched				
Peel Strength	1oz Cu. Foil	260℃,10s	N/mm	≥ 1.05	2.10
		105℃		≥ 0.70	1.70
Flexural Strength	LW	A	MPa	≥ 276	400
	CW			≥ 186	320
Water Absorption		D-24/23	%	≤ 0.35	0.11
CTE z-axis	Before Tg	TMA	μm/m℃	-	46
	After Tg		μm/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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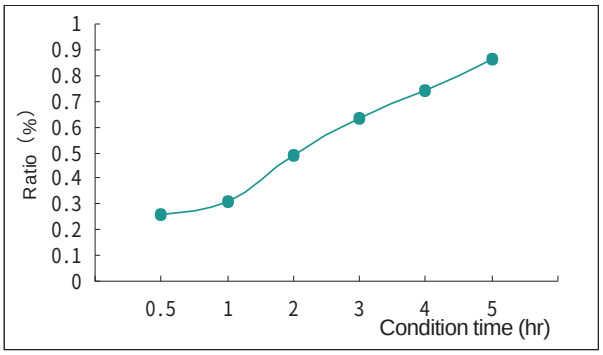
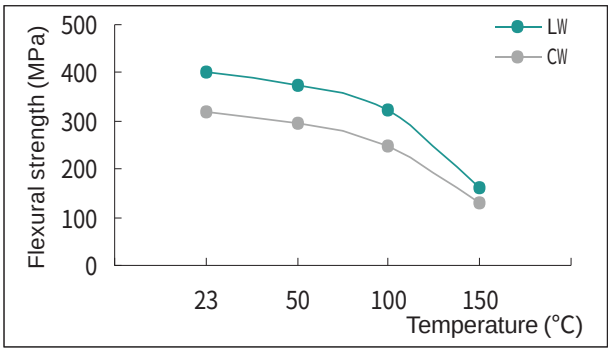
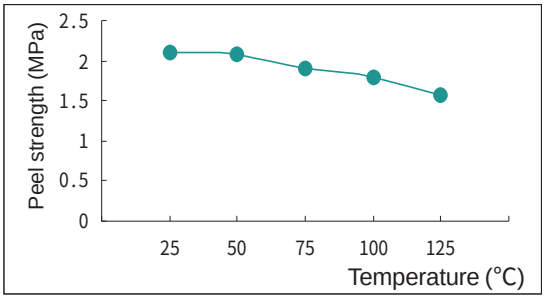
Water absorption at pressure cooker



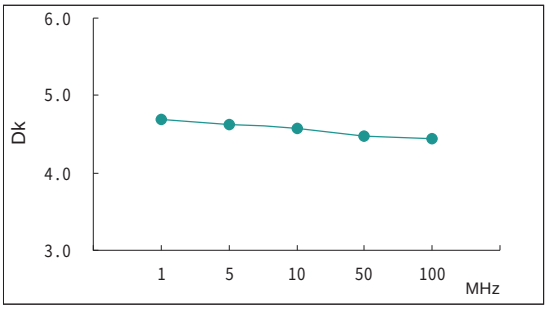
Flexural strength



Peel strength



Dielectric constant



PURCHASING INFORMATION

Thickness	Copper foil	Standard Size
0.6mm to 3.2mm	18μm to 105μm	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.