GC111 / GC112 (自然色和UV色 / N & UV,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。
■ GC112：具有UV-Blocking和AOI功能。

应用领域

● 仪器仪表、信息家电、汽车电子、自动控制器、游戏机等。

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.
■ GC112: UV Blocking and AOI compatible.

APPLICATIONS

● Test & measurement equipment,Infomation home appliances,Car electronics,Automatic controller, Game machine, etc.

GENERAL PROPERTIES

Test Item		Treatment Condition	Unit	Property Data	
				SPEC	Typical Value
Tg		DSC	˚C	-	125
Flammability		C-48/23/50	-	94V-0	94V-0
		E-24/125+des			
Volume Resistivity		After moisture resistance	MΩ-cm	≥ 10^3	10^6
		E-24/125		≥ 10^3	10^5
Surface Resistivity		After moisture resistance	MΩ	≥ 10^3	10^6
		E-24/125		≥ 10^3	10^5
Arc Resistance		D-48/50+D-0.5/23	S	≥ 60	80
Dielectric Breakdown		D-48/50+D-0.5/23	KV	≥ 40	50
Dielectric Constant (1MHz)		C-24/23/50	-	≤ 5.4	4.6
Dissipation Factor (1MHz)		C-24/23/50	-	≤ 0.035	0.020
Thermal Stress	Unetched	260˚C ,solder dip	-	≥ 10s No delamination	≥ 10s No delamination
	Etched				
Peel Strength	Hoz	260˚C ,10s	LBS/IN	≥ 6.0	7.4
		125˚C		≥ 4.0	5.4
Flexural Strength	LW	A	MPa	≥ 276	405
	CW			≥ 186	310
Moisture Absorption		D-24/23	%	≤ 0.35	0.20
CTI		IEC60112 Method	V	175-250（Ⅲ）	175

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.
The above statistics are the reference value of performance of A Grade CCL. Values of CCL of other grades will be attached separately.