



产品编号: (ANSI:CEM-3) UV Blocking

特点

- 良好的机械加工性，钻孔加工钻头使用寿命可延长。
- UV Blocking 与 AOI 兼容。
- 电性能与 FR-4 相当。

应用领域

仪器仪表、信息家电、汽车电子、自动控制器、游戏等。

FEATURES

- Excellent Mechanical Process ability, Drill Bit Life Prolonged.
- UV Blocking and AOI Compatible.
- Electrical Properties Equivalent to FR-4.

APPLICATIONS

Test & measurement equipment, information home appliances, Car electronics, Automatic controller, Game machine, etc

Copper Clad Laminate Main Technical Properties

性能 Property		试验条件 Pre-treatment	单位 Unit	特性值 Property Date	
				指标 Index	典型值 typical value
表面电阻 Surface resistivity	耐湿后 After moisture resistance	F	MΩ	≥10 ⁴	7.5×10 ⁶
	高温下 At elevated temperature	E-24/125		≥10 ³	8.3×10 ⁵
体积电阻 Volume resistivity	耐湿后 After moisture resistance	F	MΩ.cm	≥10 ⁶	5.5×10 ⁸
	高温下 At elevated temperature	E-24/125		≥10 ³	3.5×10 ⁵
击穿电压 (平行板面) Dielectric breakdown (parallel laminations)		D-48/50+D-0.5/23	KV	≥40	42
介电常数 (1MHZ) Permittivity at 1MHz		C-40/23/50	-	≤5.4	4.6
介质损耗角正切 Loss tangent at 1MHz		C-40/23/50	-	≤0.035	0.02
耐电弧性 Arc resistance		D-48/50+D-0.5/23	S	≥60	115



剥离强度 35μm 铜箔 Peel strength35 micron copper	交收态 As received	A	N/mm	≥1.31	1.9
	热应力后 After thermal stress	A		≥1.31	1.7
耐浸焊性 Solder limits		260℃,20S	—	No delaminating	No delaminating
		288℃,20S	—	No delaminating	No delaminating
弯曲强度 Flexural strength	纵向 Lengthwise	A	Mpa	≥276	415
	横向 Crosswise	A		≥186	325
吸水率 Water absorption		E-1/105+des+D-24/23	%	0.79-1.56 ≤0.50	0.22
				1.57-2.36 ≤0.25	0.15
燃烧性 Flammability		A&E-1/105+des	—	94V-0	94V-0
尺寸稳定性 Dimensional stability		E-4/105+des+E-2/150	PPM	—	±150
相比漏电起痕指数 CTI			—	175-250 (grade3)	225
玻璃化转换温度 Tg(DSC)		IPC-TM-6502.4.25	℃	≥120	132
Z 轴热膨胀系数 Z-Axis CTE	Alpha1	TMA	PPM/℃	—	55
	Alpha2			—	360
	50-260 Degrees		%	—	5.2

Remark: All the data listed above can meet IPC-4101/12 requirement

备注:上述列出的指标均符合 IPC-4101/12 标准

Specimen Thickness:1.6mm

标准厚度: 1.6mm

Explanations: A—板材交货阶段

C—恒温恒湿烘箱

D—恒温水浴

E—高温烘箱

F—潮湿条件

说明:

A—CCL inspection for delivery

C—stoved at constant temperature and moisture

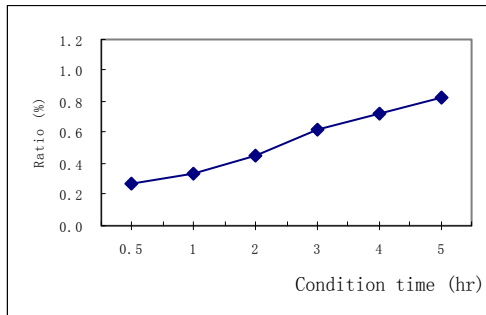
D—treatment carried out in distilled water at constant temperature

E—stoved at high temperature

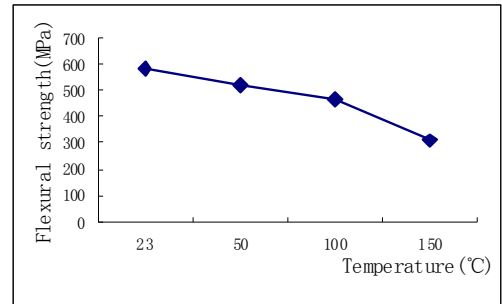
F—Humidity conditioning



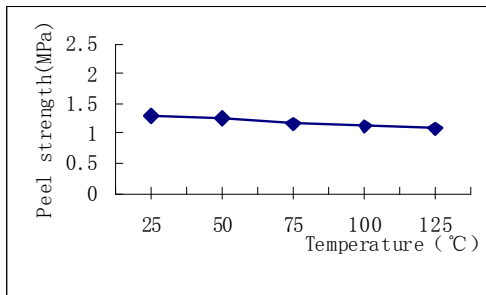
Water absorption at pressure cooker



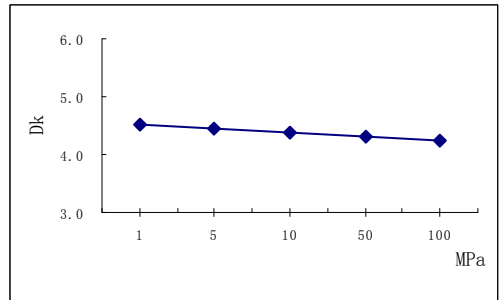
Flexural strength



Peel strength



Dielectric constant



PURCHASING INFORMATION

Thickness Copper	Copper foil	Standard Size
0.5mm to 2.0mm	18μm to 105μm	Normal size:34*49",41*49",43"*49. (864*1245mm,1041*1245mm,1092*1245mm)

Other sheet size and thickness could be available upon request.