

金安国纪科技（杭州）有限公司

GOLDENMAX INTERNATIONAL TECHNOLOGY (HANGZHOU)LTD.



(Product Brand)



QF27.08
修改状态: 1



覆铜箔层压板常规测试报告

COPPER CLAD LAMINATE TESTING REPORT

合同号 (Contract No.): GAYATRI041

出货日期 (Delivery Date): 2024-1-5

客户 (Customer): GAYATRI TRADING CORPORATION				数量 (Quantity): 1000 张			
型号 (Type): FR-4.0 1.50mm 35um/0 S UV 41" × 49" A				物料编码 (P/N):			
批号 (Lot No.): HCY23711 HCY23723 HC124007							
序号 No	检验项目 Item	单位 Unit	检测条件 Test Condition	规范值 Specification	测试值 Actual Value	判定 Judgement	
1	外观 Visual	—	IPC-TM650	AABUS	A	ACC	
2	尺寸公差 Panel Size Tolerance	mm	A IPC-TM-650 2.2.19.1	+5/-3 IPC-4101D/97	+3/-0	ACC	
3	方正度 Squareness	mm	对角线偏差 Diagonal IPC-TM-650 2.2.19.1	≤5 IPC-4101D/97	≤3	ACC	
4	△板材厚度 Thickness	mm	A	B/L IPC-4101D/97 或客户要求	L	ACC	
5	△抗剥强度 Peel Strength	LBS/IN	A Float288°C/10 Sec IPC-TM-650 2.4.8	Hoz	8.40-10.00	ACC	
				1oz			
				2oz			
				≥6	≥8	≥10	
				IPC-4101D/97			
6	热应力 Thermal Stress	Sec	Float IPC-TM-650 2.4.13.1	288°C ≥10 IPC-4101D/97	60-80	ACC	
7	玻璃化转变温度 Glass Temperature	°C	E2/105 DSC IPC-TM-650 2.4.25	≥Tg120 △Tg ≤3 IPC-4101D/97	121	ACC	
8	阻燃性 Flamm ability	—	E24/23 UL94	No-Flame	No-Flame	No-Flame	
9	弯弓度/翘曲度 Bow/Twist	%	A IPC-TM-650 2.4.22.1	≤1.50 IPC-4101D/97	0.90-1.25	ACC	
10	表面电阻率 Surface Resistivity	MΩ	E24/125 IPC-TM-650 2.5.17.1	≥1.0 × 10 ³ IPC-4101D/97	1.0 × 10 ⁶	ACC	
11	体积电阻率 Volume Resistivity	MΩ-cm	E24/125 IPC-TM-650 2.5.17.1	≥1.0 × 10 ³ IPC-4101D/97	1.0 × 10 ⁶	ACC	
12	介电常数 Dielectric Constant	1MHz Max	C40/23/50 IPC-TM-650 2.5.5.2	≤5.4 IPC-4101D/97	4.6	ACC	
13	介电损耗 Loss Tangent	—	Etched/ @ 1MHZ IPC-TM-650 2.5.5.2	≤0.040 IPC-4101D/97	0.032-0.039	ACC	
14	耐电弧性 Arc Resistance	Sec	D48/50+0.5/23 IPC-TM-650 2.5.1	≥60 IPC-4101D/97	75	ACC	
15	吸水率 Moisture Absorption	%	D24/23 IPC-TM-650 2.6.2.1	≤0.8 IPC-4101D/97	0.18-0.35	ACC	
16	Z—轴热膨胀系数 Coefficient of Thermal Expansion in the Z-Axis	ppm/°C	Alpha 1	————	65	ACC	
		ppm/°C	Alpha 2	————	310	ACC	
		%	50 to 260 Degress C	————	4.8	ACC	
17	相比漏电起痕指数 Comparative Tracking Index	V	A IEC-60112	————	175	ACC	
18	尺寸稳定性 Dimensional Stability	ppm	E2/150 IPC-TM-650 2.4.39	WARP±300 FILL±300 IPC-4101D/97	±200	ACC	

Notes:

- AB3, AB4, A, AB, AF4-AF6 grade plates are non-flame retardant products. Our company will not be responsible for quality problems caused by PCB products with flame retardant requirements.
- It can not be used for PCB products of electric meter board, special instrument board, high frequency board and CAF resistance.

最终检验结论: ACC
FINAL TESTING RESULT

检验员: INSPECTOR
审核人: APPROVED

RoHS