

金安国纪科技（杭州）有限公司

GOLDENMAX INTERNATIONAL TECHNOLOGY (HANGZHOU)LTD.

GEM (Product Brand)



QF27.08
修改状态: 1

FOR
EXPORT

覆铜箔层压板常规测试报告

COPPER CLAD LAMINATE TESTING REPORT

合同号 (Contract No.): GAYATRI040

出货日期 (Delivery Date): 2023-7-31

客户 (Customer): GAYATRI TRADING CORPORATION				数量 (Quantity): 100 张				
型号 (Type): FR-4.0 1.60mm 35um/35um S UV 41" × 49" A				物料编码 (P/N):				
批号 (Lot No.): HA723686 HB423512								
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	1oz	2oz	8.40-10.00	ACC
				≥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	≤1.00 IPC-4101D/97	0.70-0.90	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:

1. AB3, AB4, A, AB, AF2 grade plates are non-flame retardant products. Our company will not be responsible for quality problems caused by PCB products with flame retardant requirements.
2. 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