

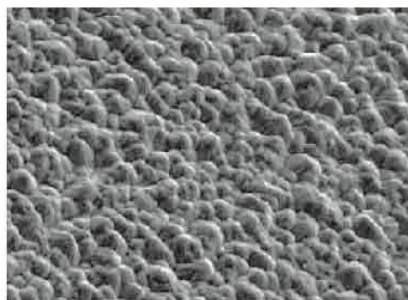
高结合力铜箔 (HTG)

技术特性

- 高级单面处理电解铜箔，厚度均匀、无针孔
- 具有良好的高结合力和高温抗剥、抗拉性能
- 有效的增大了板材的热稳定性和导电性能
- 典型板材包括：CEM-1,CEM-3,FR-3,FR-4

Technical character

- Advanced single-side treated electrolytic copper foil, uniform thickness, and pinhole-free
- Strong binding force, anti-stripping and anti-stretching performance at high temperature
- Effectively increased thermal stability and the conductive properties of the sheet metal
- Typical sheet metal including: CEM-1, CEM-3, FR-3, FR-4



毛箔毛面峰型：Peak Type for Matte-matte foil side



粗化毛面峰型：Peak Type for Matte-treated side

备注：

- 适用于双官能基及四官能基之环氧树脂基板，中层数MLB（多层板）
- 不应在高温（高于30℃）高湿（相对湿度在70%以上）条件环境下长时间贮存
- 品质依据GB/T5230-1995及IPC-4562标准

Remarks:

- Applicable to di- and tetra-functional groups of epoxy resin substrate, middle-layers MLB
- Should not be stored at a high temperature (higher than 30 °C) and high humidity (relative humidity above 70%) for a long time
- The quality is based on the GB/T5230-1995 and IPC-4562 standard

General Properties 一般特性(HTG 1OZ/35 μ m)

测试项目 Test Item	单位 Unit	处理条件 Condition	测试方法 Testing Method	规范值 Specification Value	典型值 Typical Value	
纯度(包括银含量) Purity (Silver Content Included)	%	A	IPC-TM-650 2.3.15	≥ 99.8 IPC-4562 3.8.1.1	99.95	
拉力强度 Tensile Strength			IPC-TM-650 2.4.18	≥ 28000 IPC-4562 3.5.1		37000
延伸率 Elongation	IPC-TM-650 2.4.18		≥ 3.0 IPC-4562 3.5.3	10.0		
面积重量 Area Weight	g/m ²		IPC-TM-650 2.2.12		275-295 IPC-4562 3.4.4	285
剥离强度 Peeling Strength			IPC-TM-650 2.4.8	≥ 1.40 IPC-4562 3.5.4	1.60	
高温抗氧化性 Heat Resistance	/		E- 30/200	IPC-TM- 650		S 面 不氧化 M 面不变色
耐化学性 Chemical resistance	%		18%HCL-60min/ 25°C	IPC-TM- 650	≤ 4.0	3.0
可蚀刻性 Etch ability	/		A	IPC-TM-650 2.3.6	金属箔表面处理,能正 常的蚀刻工艺除去 IPC-4562 3.6.1	
可焊性 Solder ability	/			IPC-TM-650 2.4.12	不应有爆裂不润湿的迹象 IPC-4562 3.6.3	OK
质量电阻率 Surface Resistivity	$\Omega \cdot g/m^2$	C96/35/90	IPC-TM-650 2.4.14	≤ 0.162 IPC-4562 3.8.12	0.156	
粗糙度 Roughness			光面 Shiningside -Ra	IPC-TM-650 2.4.17		≤ 0.43 IPC-4562 3.5.6
	毛面 Matte side-Rz	IPC-TM-650 2.4.17	≤ 11.00 IPC-4562 3.5.6	5.85		

Remarks: Typical values for reference only

注:典型值只作参考 Standard values according to IPC-4562 规格值参照 IPC-4562

A=Maintain original shape,do not make handling 保持原样, 不作处理

C=Temperature and humidity conditioning 在恒温恒湿的空气中处理

E=Temperature congtioning 在恒温的空气中处理