

KB-7152 (Halogen-free CEM-3)

无卤素覆铜箔玻璃毡布复合基层压板

Features 特点

- 无卤素，溴及氯元素含量小于 900ppm;溴+氯含量小于 1500ppm
Halogen-free, Br/Cl content below 900ppm; Br+Cl content below 1500ppm
- 不含锑及红磷，燃烧时不残留有毒成分
Antimony and red phosphor free, Absence of highly toxic dioxins in burning exhaust gas.
- 符合 IPC-4101C/ 14 的规范要求
IPC-4101C/ 14 specification is applicable.

General Properties 一般特性

Test Item 测试项目	Unit 单位	Test Method (IPC-TM-650) 测试方法	Test Condition 处理条件	Specification (IPC-4101C) 规格值	Typical Value 典型值
Peel Strength (1 oz.) 铜箔剥离强度	N/mm	2.4.8	125°C	AABUS	1.3
			Float 260°C / 10 Sec	AABUS	1.1
Thermal Stress 热应力	Sec	2.4.13.1	Float260°C/unetched	≥10	50
Bow / Twist 弯弓度/翘曲度	%	2.4.22.1	A	≤ 1.0	0.5 / 0.85
Flexural Strength 抗弯强度	N/mm ²	2.4.4	Warp	≥276	368
			Fill	≥186	286
Flammability 燃烧性	Rating	UL94	UL94	UL94 V-0	V-0
Surface Resistivity 表面电阻	MΩ	2.5.17.1	C-96/35/90	≥1.0×10 ⁴	1.0×10 ⁶
Volume Resistivity 体积电阻	MΩ-cm	2.5.17.1	C-96/35/90	≥1.0×10 ⁶	1.0×10 ⁷
Dielectric Constant 介电常数	—	2.5.5.2	Etched/@1 MHZ	≤5.4	4.3
Loss Tangent 介质损耗	—	2.5.5.2	Etched/@1 MHZ	≤0.035	0.02
Arc Resistance 耐电弧性	Sec	2.5.1	D-48/50+D-0.5/23	≥60	120
Moisture Absorption 吸水率	%	2.6.2.1	D-24/23	≤0.5	0.15
Comparative Tracking Index 相比漏电起痕指数	V	IEC60112	Etched/0.1% NH ₄ CL	≥175	175/600
Thermal Conductivity 基板导热系数	W/m·K	ASTM E-1461	LFA447	—	0.8±0.2

Remarks: Typical values for reference only 注: 典型值仅作参考 Specimen Thickness:1.6mm 1/1 样品厚度: 1.6mm 1/1

A = Keep the specimen originally without any process 保持原样,不作处理

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

D = Immersing in distilled water with temperature control. 浸在恒温的水中处理

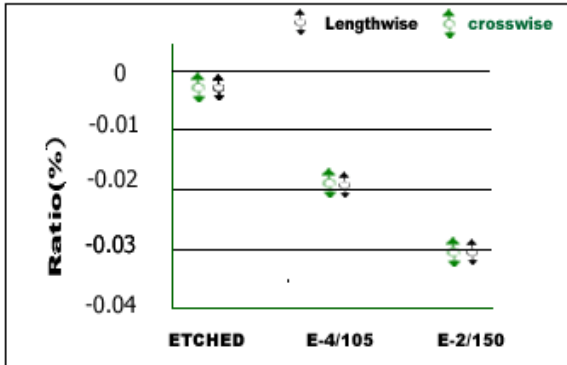
E = Temperature conditioning 在恒温的空气中处理

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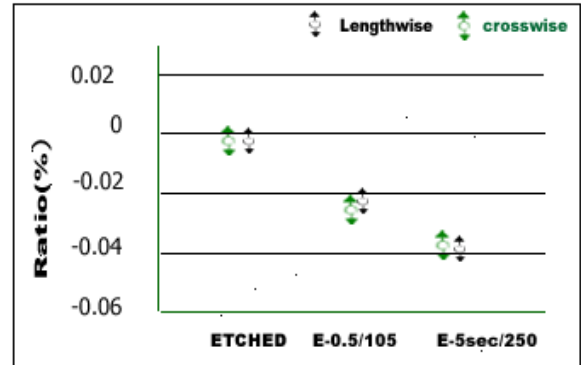
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Speciality Chart 板材特性图

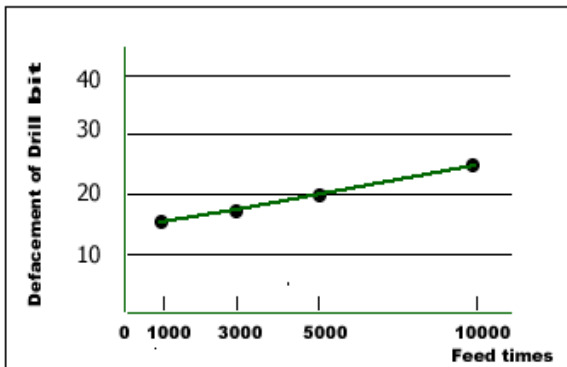
Dimensional stability 尺寸稳定性



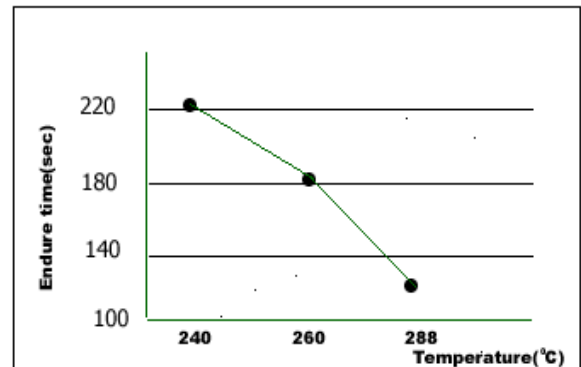
Dimensional stability-PCB process (size:360*310mm)



Drilling processability 钻孔加工性



Solder Resistance 耐焊性



应用领域

- 光电照明、电源基板、电视机、冰箱、洗衣机、电子乐器

Applications

- Photoelectricity, Power supply, TV, Refrigerator, Washing machine, Electronic musical instrument.

Purchasing Information 采购信息

Base Color 基材颜色	Thickness 厚度	Copper Cladding 铜箔厚度	Regular Size (mm) 常规尺寸
淡黄色 (Pale Yellow)	0.8mm ~1.6mm	18μm 35μm 70μm	915*1220mm (36"*48") 1020*1220mm (40"*48") 1067*1220mm (42"*48")

Note: 1) Other sheet size and thickness could be available upon request. 可根据客户要求提供其它尺寸和厚度;

2) Speciality chart for reference only. 以上图表仅供参考;

3) Version updates without notice. 版本更新恕不另行通知。