

### KB-5150/5150& (ANSI : CEM-1)

### 覆铜箔改性环氧纸芯玻璃布复合基层压板

#### 特点

- 优良的冲孔性，最佳冲孔温度为 45℃~70℃
- 良好的耐热性和耐湿性
- 符合 IPC-4101C 的规范要求
- 不推荐作 PTH 制程

#### Features

- Excellent punching property, Suitable for punching at 45℃~70℃
- Excellent heat resistance.
- IPC-4101 C specification is applicable
- Plated through holes are not recommended for the cellulose core is easily attacked by the Electrolyte

#### 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℃	--	1.65
			Float 260℃ / 10 Sec	≥1.05	1.6/1.45
Thermal Stress 热应力	Sec	2.4.13.1	Float260℃/unetched	≥10	25
Bow / Twist 弯弓度/翘曲度	%	2.4.22.1	A	≤ 1.5	0.3 / 0.4
Flexural Strength 抗弯强度	N/mm <sup>2</sup>	2.4.4	Warp	≥242	420
			Fill	≥172	290
Flammability 燃烧性	Rating	UL94	UL-94	UL94 V-0	V-0
Surface Resistivity 表面电阻	MΩ	2.5.17.1	C-96/35/90	≥1.0×10 <sup>4</sup>	1.0×10 <sup>7</sup>
Volume Resistivity 体积电阻	MΩ-cm	2.5.17.1	C-96/35/90	≥1.0×10 <sup>6</sup>	1.0×10 <sup>8</sup>
Z-Axis Expansion Z 轴热膨胀系数	ppm/℃	2.4.24	E-2/105 TMA	---	100/320
	%			---	6.0
Dielectric Constant 介电常数	—	2.5.5.2	Etched/@1 MHZ	≤5.4	4.6
Loss Tangent 介质损耗	—	2.5.5.2	Etched/@1 MHZ	≤0.035	0.023
Arc Resistance 耐电弧性	Sec	2.5.1	D-48/50+D-0.5/23	≥60	125
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 <sub>4</sub> CL	≥175	175/300/600

Remarks: Typical values for reference only 注: 典型值只作参考 Specimen Thickness: 1.6mm 1/0 样品厚度: 1.6mm 1/0

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

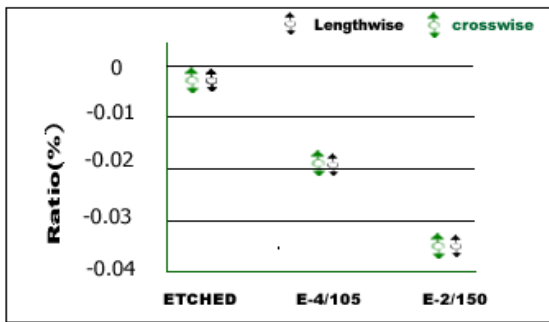
E = Temperature conditioning 在恒温的空气中处理

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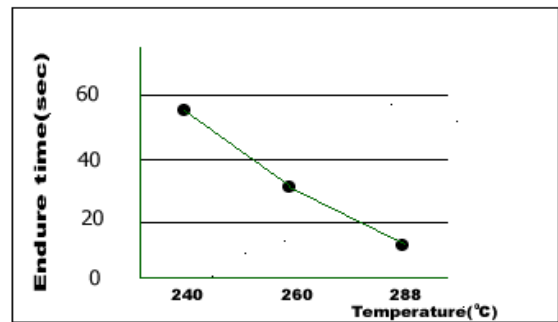
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#### Speciality Chart 板材特性图

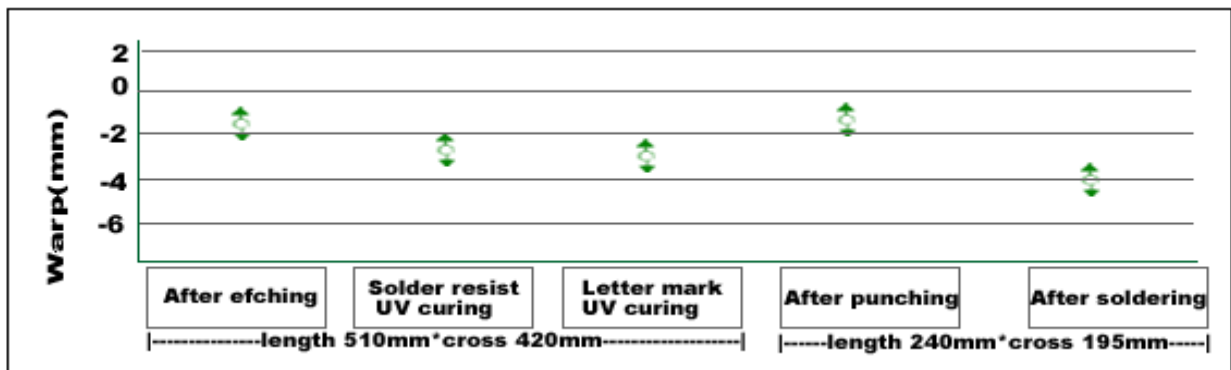
##### Dimensional stability 尺寸稳定性



##### Solder Resistance 耐焊性



##### Warping through PCB process (thickness 1.6mm single side)



#### 应用领域

- 显示器、录像机、电源基板、工业仪表、数码刻录机等

#### Applications

- Display, VCR, Power supply, Industrial Instrument, Digital sound recorder, etc.

#### 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	CTI Value CTI 值
CEM-1(纯白 pure-white)	0.8mm~ 1.6mm	18μm	915*1220mm (36"*48")	KB-5150:175/300V KB-5150&: 600V
CEM-1W(白色 white)		35μm	1020*1220mm (40"*48")	
CEM-1F(黄色 yellow)		70μm	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。