

## KB-7150/7150C (ANSI: CEM-3)

## 覆铜箔玻璃毡布复合基层压板

## Features 特点

- Excellent mechanical process ability and punching process applicable  
优异机械加工性，可冲孔加工性
- Electrical properties and PCB processing are similar to FR-4, the wearing of drill bit is much less than FR-4  
电性能与 FR-4 相当，加工工艺与 FR-4 相同，钻嘴磨损率比 FR-4 小
- IPC-4101D/12 specification is applicable  
符合 IPC-4101D/12 的规范要求

注：耐漏电起痕指数 KB-7150 CTI $\geq$ 175V      KB-7150C CTI $\geq$ 600V

## 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-4101D) 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	1.75
			Float 260°C / 10 Sec	AABUS	1.79
Thermal Stress 热应力	Sec	2.4.13.1	Float 260°C / unetched	$\geq 10$	60
Bow / Twist 弯弓度/翘曲度	%	2.4.22.1	A	$\leq 1.0$	0.5 / 0.8
Flexural Strength 抗弯强度	N/mm <sup>2</sup>	2.4.4	Length direction	$\geq 276$	355
			Cross direction	$\geq 186$	293
Flammability 燃烧性	Rating	UL94	UL94	UL94 V-0	V-0
Surface Resistivity 表面电阻	M $\Omega$	2.5.17.1	C-96/35/90	$\geq 1.0 \times 10^4$	$1.0 \times 10^6$
Volume Resistivity 体积电阻	M $\Omega$ -cm	2.5.17.1	C-96/35/90	$\geq 1.0 \times 10^6$	$1.0 \times 10^7$
Dielectric Constant 介电常数	—	2.5.5.2	Etched/@1 MHZ	$\leq 5.4$	4.5
Loss Tangent 介质损耗	—	2.5.5.2	Etched/@1 MHZ	$\leq 0.035$	0.020
Arc Resistance 耐电弧性	Sec	2.5.1	D-48/50+D-0.5/23	$\geq 60$	128
Moisture Absorption 吸水率	%	2.6.2.1	D-24/23	$\leq 0.5$	0.20
Comparative Tracking Index 相比漏电起痕指数	V	IEC60112	Etched / 0.1% NH <sub>4</sub> CL	$\geq 175$	175 / 600

Remarks: 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

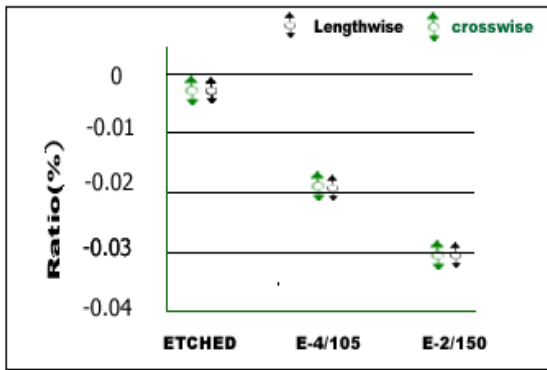
E = Temperature conditioning 在恒温的空气中处理

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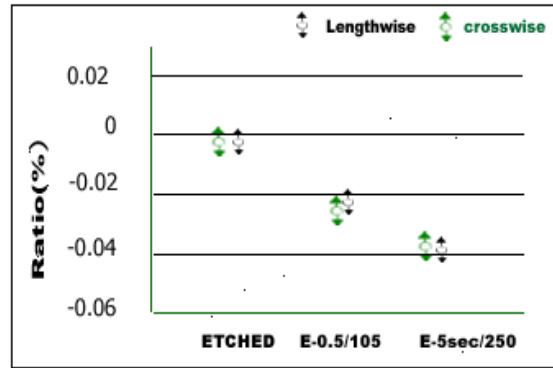
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#### Speciality Chart 板材特性图

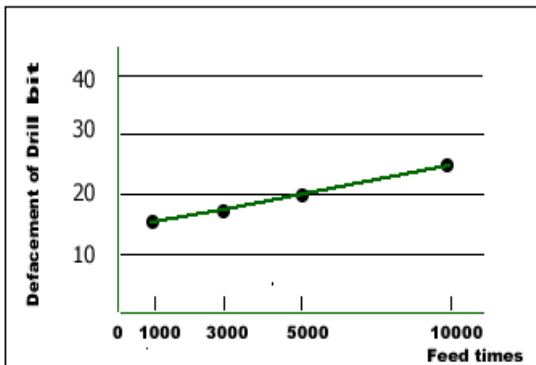
#### Dimensional stability 尺寸稳定性



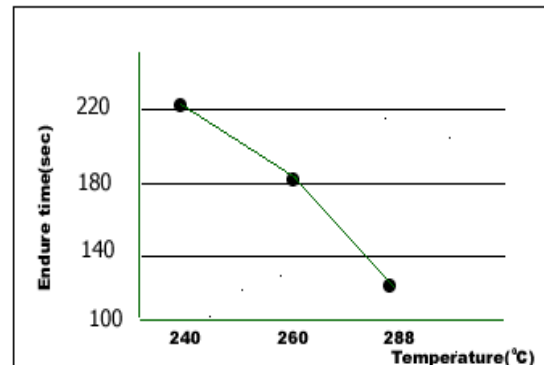
#### Dimensional stability-PCB process (size:360\*310mm)



#### 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	CTI Value CTI 值
CEM-3 (乳白色、半透明) YCEM-3 (黄色、透明)	0.8mm ~ 1.6mm	18μm	915*1220mm (36"*48")	KB-7150C:600V
NCEM-3 (自然色、透明) SCEM-3 (白色、透明)		35μm	1020*1220mm (40"*48")	KB-7150:175V
		70μm	1067*1220mm (42"*48")	

Note: 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;