

KB-7150 (ANSI: CEM-3)

覆銅箔玻璃氈布複合基層壓板

特點

- 優異機械加工性，可沖孔加工性
- 電性能與 FR-4 相當，加工工藝與 FR-4 相同，鑽嘴磨損率比 FR-4 小
- 多等級的耐漏電痕跡性 (CTI 175V、CTI300V、CTI 600V)
- 符合 IPC-4101A 的規範要求

Features

- Excellent mechanical process ability and punching process applicable
- Electrical properties and PCB processing are similar to FR-4, the wearing of drill bit is much less than that of FR-4
- CTI value 175V/300V/ 600V
- IPC-4101A specification is applicable

General Properties 一般特性

Test Item 測試項目	Unit 單位	Test Method (IPC-TM-650) 測試方法	Test Condition 處理條件	Spec (IPC-4101A) 規格值	Typical Value 典型值
Peel Strength (IOZ) 銅箔剝離強度	kgf/cm	2.4.8	A	≥1.43	1.80
			Float 288°C / 10Sec	≥1.40	1.60
Thermal stress 熱應力	Sec	2.4.13.1	Float288°C/unetched	≥20	80
Bow / Twist 彎弓度/翹曲度	%	2.4.22.1	A	≤ 1.0	0.5 / 0.6
Flexural Strength 抗彎強度	N/mm ²	2.4.4	Warp	≥276	355
			Fill	≥186	293
Flammability 燃燒性	Rating	UL94	UL94	UL94V-0	V-0
Surface Resistance 表面電阻	MΩ	2.5.17.1	C-96/35/90	≥1.0×10 ⁴	1.0×10 ⁸
Volume Resistance 體積電阻	MΩ-cm	2.5.17.1	C-96/35/90	≥1.0×10 ⁶	1.0×10 ⁹
Dielectric Constant 介電常數	—	2.5.5.2	Etched/@1 MHZ	≤5.4	4.5
Loss Tangent 介質損耗	—	2.5.5.2	Etched/@1 MHZ	≤0.035	0.020
Arc Resistance 耐電弧性	Sec	2.5.1	D-48/50+D-0.5/23	≥60	128
Moisture Absorption 吸水率	%	2.6.2.1	D-24/23	≤0.5	0.20
Comparative Tracking Index 相比漏電起痕指數	V	IEC 112	Etched/0.1% NH ₄ Cl	AABUS	175/300/600

Remarks: Specimen Thickness:1.6mm , 樣品厚度: 1.6mm

A=Maintain original shape,do not make handling 保持原樣,不作處理

C= Temperature and humidity conditioning 在恒溫恒濕的空氣中處理

E= Temperature conditioning 在恒溫的空氣中處理

D= Temperature conditioning immersion in distilled water. 浸在恒溫的水中處理

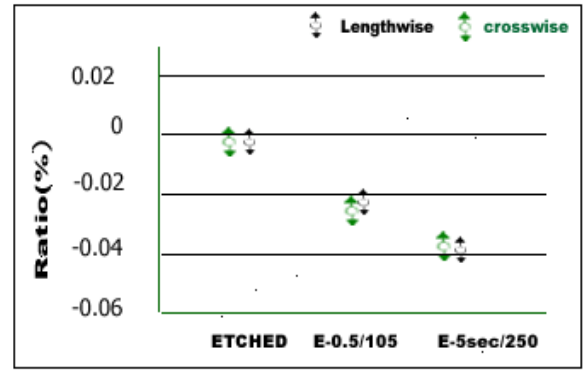
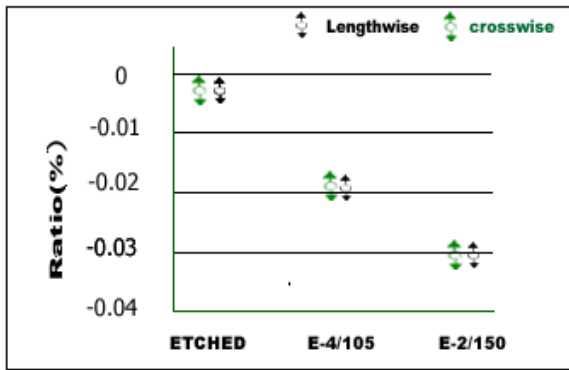
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Speciality Chart 板材特性圖

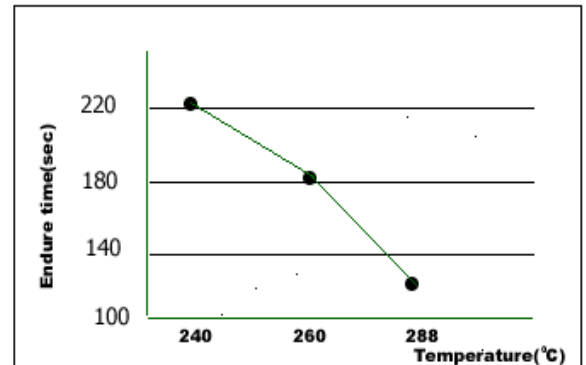
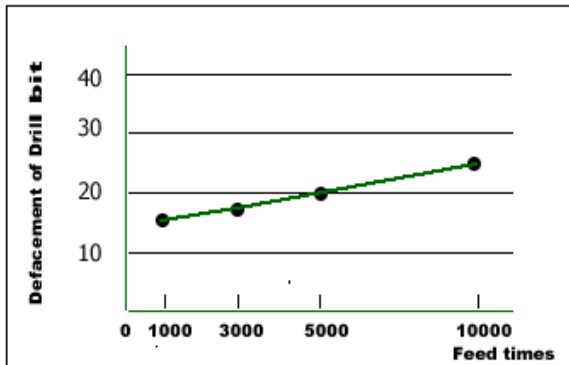
Dimensional stability 尺寸穩定性

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



Drilling processability 鑽孔加工性

Thermal stress 耐熱衝擊性



應用領域

Application

- 光電照明、電源基板、電視機、冰箱、洗衣機、電子樂器

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

Purchasing Information / 採購資訊

KB-7150 Type 類型	Thickness 厚度	Copper Cladding 銅箔厚度	Regular Size (mm) 常規尺寸	CTI Value CTI 值
CEM-3 (基材乳白色、半透明)	0.8mm ~ 1.6mm	18μm 35μm 70μm.	915*1220mm (36"*48") 1020*1220mm (40"*48") 1067*1220mm (42"*48")	175V 300V 600V
WCEM-3 (基材純白色、不透明)				
NCEM-3 (基材自然色、透明)				
YCEM-3 (基材黃色、透明)				
DCEM-3 (基材黑色、不透明)				

Note: Other sheet size and thickness could be available upon request.

可根據客戶要求提供其他尺寸和厚度。