

KB-6160/6160A/6160C (ANSI: FR-4)

覆銅箔環氧玻纖布層壓板

特點 Features

- 相容紫外光阻擋及光學自動檢查功能,可提高 PCB 生產效率與準確性
UVB and AOI (automatic optical inspection) compatible, so as to increase productivity and accuracy.
- 優良的耐熱性能和機械性能
Excellent heat resistance and mechanical properties
- 符合 IPC-4101B 的規範要求
IPC-4101B 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 規格值	Typical Value 典型值
Peel Strength (1OZ) 銅箔剝離強度	N/mm	2.4.8	125°C	≥0.70	1.70
			Float 288°C / 10Sec	≥1.05	1.75
Thermal stress 熱應力	Sec	2.4.13.1	Float288°C/unetched	≥60	180
Bow / Twist 彎弓度/翹曲度	%	2.4.22.1	A	≤ 1.0	0.17 / 0.35
Flexural Strength 抗彎強度	N/mm ²	2.4.4	Warp	≥415	565
			Fill	≥345	416
Flammability 燃燒性	Rating	UL94	UL94	UL94 V-0	V-0
Glass Transition (Tg) 玻璃化转变溫度	°C	2.4.25	E-2/105 DSC	≥130	135
Surface Resistance 表面電阻	MΩ	2.5.17.1	C-96/35/90	≥1.0×10 ⁴	1.0×10 ⁶
Volume Resistance 體積電阻	MΩ-cm	2.5.17.1	C-96/35/90	≥1.0×10 ⁶	1.0×10 ⁸
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	0.022
Arc Resistance 耐電弧性	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	≤0.35(min0.51mm)	0.21
				≤0.80(max0.51mm)	0.19
Z-Axis Expansion Z-轴热膨胀系数	ppm/°C	2.4.24	E-2/105 TMA	—	48/284
TD	°C	2.4.24.6	TGA	—	310
T-260	min	2.4.24.1	TMA	—	20
T-288	min	2.4.24.1	TMA	—	3

Remarks: Specimen Thickness: 1.6 mm 1/1 樣品厚度：1.6 mm 1/1

A= Keep the specimen originally without any process 保持原樣,不作處理

C= Temperature and humidity conditioning 在恆溫恆濕的空氣中處理;

D= Temperature conditioning immersion in distilled water. 浸在恆溫的水中處理

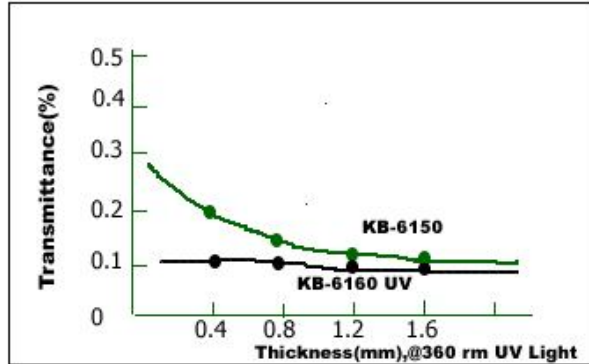
E= Immersing in distilled water with temperature control 在恆溫的空氣中處理;

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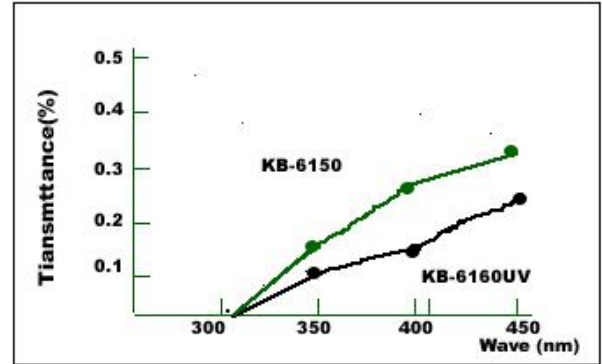
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Speciality Chart 板材特性圖

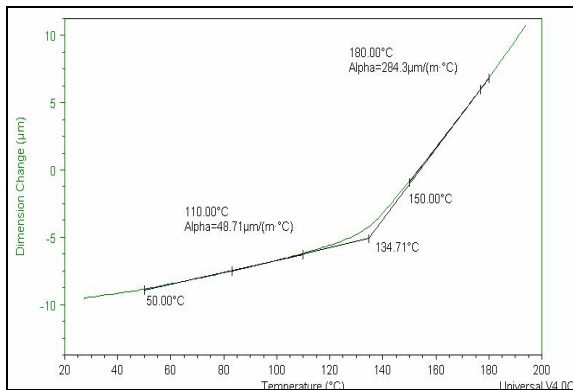
UV blocking (thickness) UV 阻擋



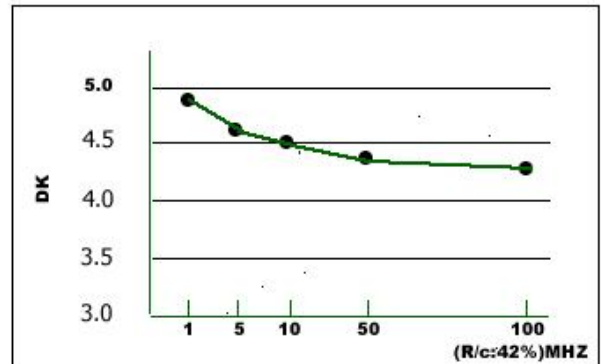
UV blocking (wave / UV-3100)



Thermal expansion of Z-direction (test by TMA)



Dielectric constant 介電常數



應用領域/Applications

- 電腦及週邊設備、通訊設備、儀器儀錶、辦公自動設備等
- Computer, communication equipment instrumentation, OA equipment, etc.

Purchasing Information / 採購資訊

Base colour 基板顏色	Thickness 厚度	Copper Cladding 銅箔厚度	Regular Size (mm) 常規尺寸	CTI Value CTI 值
黃色 (yellow)	0.05mm ~ 3.5mm	12μm, 18μm	1093*1245mm (43" * 49")	KB-6160: 150V
		35μm, 70μm	940*1245mm (37" * 49")	KB-6160A: 175V
		105μm	1042*1245mm (41" * 49")	KB-6160C: 600V

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。

