

S1141 150

(ANSI:FR-4)Tg 150

特点

- Tg(DSC) 150℃。
- UV Blocking 和 AOI兼容，可提高PCB生产效率与准确率。
- 优良的耐热性和尺寸稳定性。
- 优秀的机械性能和电性能。

FEATURES

- Tg(DSC) 150℃.
- UV Blocking and AOI compatible, so as to increase productivity and accuracy.
- Good soldering reliability and dimensional stability.
- Excellent mechanical and electrical properties.

应用领域

电脑、仪器仪表、摄像机、通讯设备、电子游戏机等。

APPLICATIONS

Computer, Instrumentation, VCR, Communication equipment, Electronic Toy, etc.

GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC	℃	≥ 145	150
Flammability	C-48/23/50	-	V-0	V-0
	E-24/125+des			
Volume Resistivity	After moisture resistance	MΩ-cm	≥ 10 ⁶	5×10 ⁸
	E-24/125		≥ 10 ³	5×10 ⁶
Surface Resistance	After moisture resistance	MΩ	≥ 10 ⁴	5×10 ⁷
	E-24/125		≥ 10 ³	5×10 ⁶
Arc Resistance	D-48/50+D-0.5/23	S	≥ 60	120
Dielectric Breakdown	D-48/50+D-0.5/23	KV	≥ 40	60
Dielectric Constant (1MHz)	C-24/23/50	-	≤ 5.4	4.6
Dissipation Factor (1MHz)	C-24/23/50	-	≤ 0.035	0.015
Thermal Stress	Unetched	-	No delamination	No delamination
	Etched			
Peel Strength	1oz Cu. Foil	N/mm	≥ 1.05	1.8
			125℃	≥ 0.70
Flexural Strength	LW	MPa	≥ 415	600
	CW		≥ 345	500
Water Absorption	D-24/23	%	≤ 0.35	0.15

Specimen Thickness:1.6mm

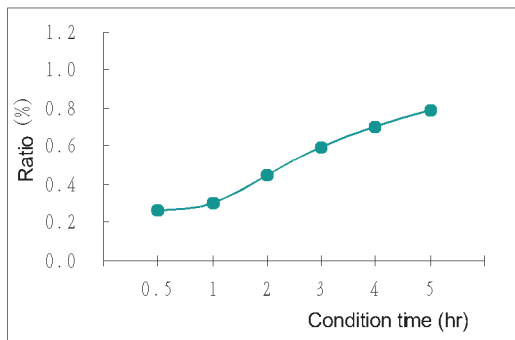
Explanations: C = Humidity conditioning;
D = Immersion conditioning in distilled water;
E = Temperature conditioning.

The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in ℃ and with the third digit the relative humidity.

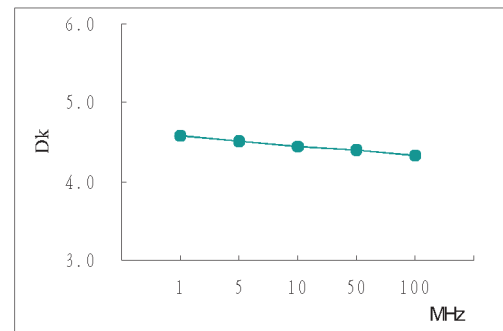
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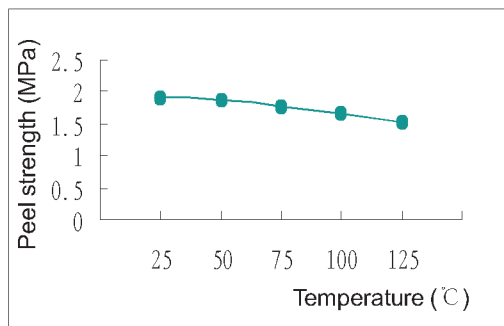
Water absorption at pressure cooker



Dielectric constant



Peel strength



S1141 150 VS. Conventional FFR-4

Property	S1141 150	Conventional FR-4 (S1130)
Tg (°C)	150	135
Z CTE (ppm/°C) [30-260°C]	175	190

PURCHASING INFORMATION

Thickness	Copper foil	Standard Size
0.05mm to 3.2mm	12 μ m to 105 μ m	1,020 \times 1,220mm (40" \times 48") 915 \times 1,220mm (36" \times 48") 1,070 \times 1,220mm (42" \times 48")

* Other sheet size and thickness could be available upon request.