

# 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、摄象机、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	M -cm	10 <sup>6</sup>	5 × 10 <sup>8</sup>
	E-24/125		10 <sup>3</sup>	5 × 10 <sup>6</sup>
Surface Resistance	After moisture resistance	M	10 <sup>4</sup>	5 × 10 <sup>7</sup>
	E-24/125		10 <sup>3</sup>	5 × 10 <sup>6</sup>
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	N/mm	1.05	1.8
	Cu. Foil		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

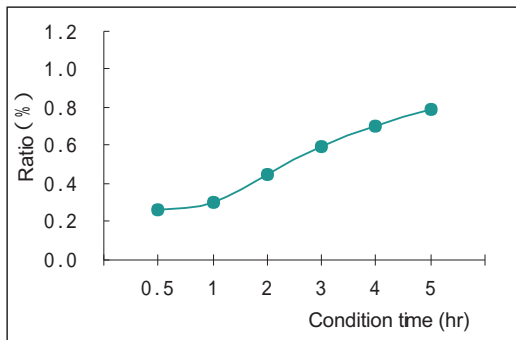
Explanations: C = Humidity conditioning;  
D = Immersion conditioning in distilled water;  
E = Temperature conditioning.

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.

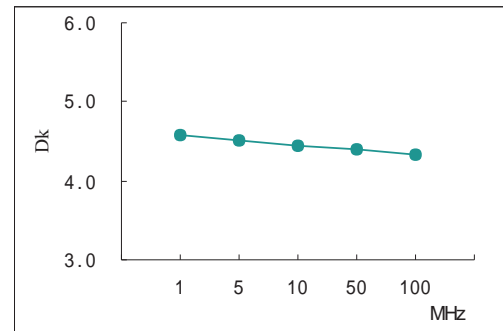
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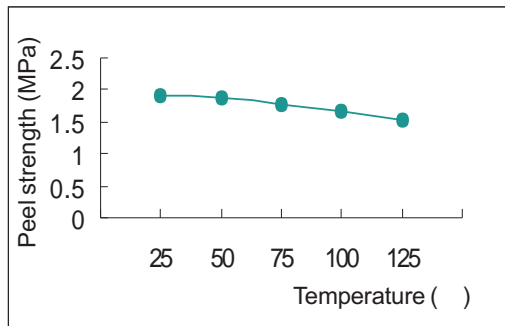
## Water absorption at pressure cooker



## Dielectric constant



## Peel strength



## S1141 150 VS. Conventional FFR-4

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

## PURCHASING INFORMATION

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

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