

# S1440

(ANSI:FR-4)UV Blocking

## 特点

- UV Blocking 和 AOI 兼容。
- Tg(DSC)140 , 优良的耐热性。
- 实现了比普通FR-4降低约20%的Z轴热膨胀系数 , 有着优良的通孔可靠性。
- 优良尺寸稳定性。
- 优秀的机械性能和电性能。
- 良好的耐漏电痕迹性 , CTI 250 V。

## FEATURES

- UV Blocking and AOI compatible.
- Tg(DSC) 140 , good soldering reliability.
- UV Blocking and AOI function compatible.
- Superior dimensional stability.
- Excellent mechanical and electrical properties.
- Superior tracking resistance, CTI 250V.

## 应用领域

电脑、仪器仪表、摄像机、通讯设备、汽车、电子游戏机等。

## APPLICATIONS

Computer, Instrumentation, VCR, Communication equipment, Automobile electronics, Electronic game machine, etc.

## GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC		130	140
Flammability	C-48/23/50	-	V-0	V-0
	E-24/125			
Volume Resistivity	After moisture resistance	M -cm	10 <sup>6</sup>	1.7 × 10 <sup>10</sup>
	E-24/125		10 <sup>3</sup>	1.6 × 10 <sup>6</sup>
Surface Resistivity	After moisture resistance	M	10 <sup>4</sup>	9.1 × 10 <sup>6</sup>
	E-24/125		10 <sup>3</sup>	3.1 × 10 <sup>5</sup>
Arc Resistance	D-48/50+D-0.5/23	S	60	125
Dielectric Breakdown	D-48/50+D-0.5/23	KV	40	45
Dielectric Constant (1MHz)	C-24/23/50	-	5.4	4.7
Dissipation Factor (1MHz)	C-24/23/50	-	0.035	0.015
Thermal Stress	Unetched	288 ,20s	-	No delamination
	Etched			
Peel Strength	1oz Cu. Foil	288 ,10s	N/mm	1.05
		125		0.70
Flexural Strength	LW	A	MPa	415
	CW			345
Water Absorption	D-24/23	%	0.35	0.15
CTE Z-axis	Before Tg	TMA	μ m/m	-
	After Tg	TMA	μ m/m	49
CTI	IEC60112 Method	V	-	260
				250

Specimen Thickness:1.6mm

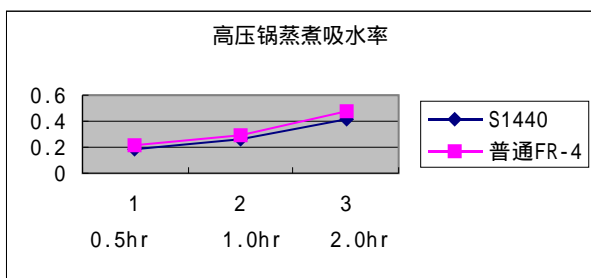
Explanations: C = Humidity conditioning;  
D = Immersion conditioning in distilled water;  
E = Temperature conditioning.

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.

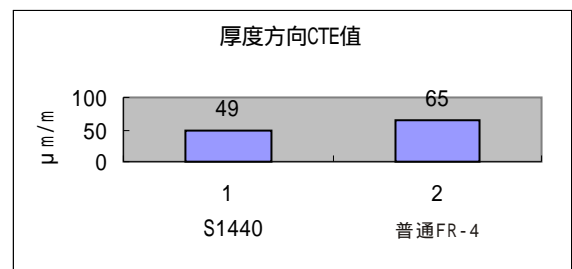
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## Water absorption at pressure cooker



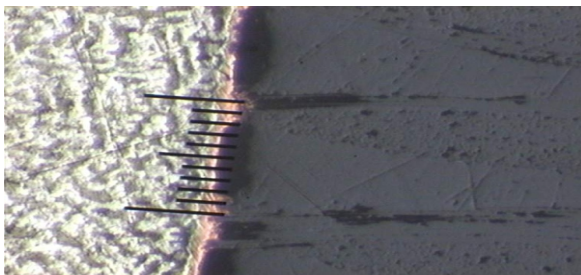
## CTE



## 热冲击孔壁质量

条件：288±5 / 20s 3次 孔径：1.0mm

普通FR-4 1.6 1/1



S1440 1.6 1/1



## PURCHASING INFORMATION

Thickness	Copper foil	Standard Size	
0.05mm to 3.2mm	12 μm	1,020 × 1,220mm (40 × 48 )	915 × 1,220mm (36 × 48 )
	to 105 μm	1,070 × 1,220mm (42 × 48 )	

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