



S1440

(ANSI:FR-4)UV Blocking

特点

- UV Blocking 和 AOI 兼容。
- Tg(DSC) 140°C, 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。
- 优良的尺寸稳定性。
- 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°C, 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.

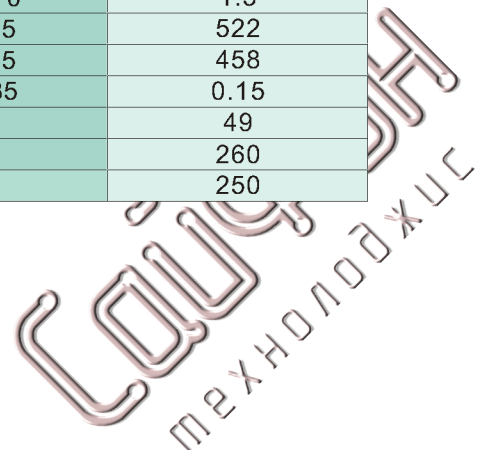
GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data		
			SPEC	Typical Value	
Tg	DSC	°C	≥ 130	140	
Flammability	C-48/23/50	-	V-0	V-0	
	E-24/125				
Volume Resistivity	After moisture resistance	MΩ-cm	≥ 10 ⁶	1.7 × 10 ¹⁰	
	E-24/125		≥ 10 ³	1.6 × 10 ⁶	
Surface Resistivity	After moisture resistance	MΩ	≥ 10 ⁴	9.1 × 10 ⁶	
	E-24/125		≥ 10 ³	3.1 × 10 ⁵	
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°C, 20s	-	No delamination	
	Etched				
Peel Strength	1oz Cu. Foil	288°C, 10s	N/mm	≥ 1.05	1.5
		125°C		≥ 0.70	1.3
Flexural Strength	LW	A	MPa	≥ 415	522
	CW			≥ 345	458
Water Absorption	D-24/23	%	≤ 0.35	0.15	
CTE Z-axis	Before Tg	TMA	μm/m°C	-	49
	After Tg	TMA	μm/m°C	-	260
CTI	IEC60112 Method	V	-	250	

Specimen Thickness: 1.6mm

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

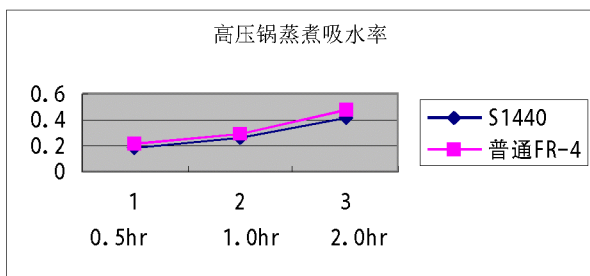
The figures following the letter symbols indicate with the first digit the duration of the preconditioning in hours, with the second digit the preconditioning temperature in °C and with the third digit the relative humidity.



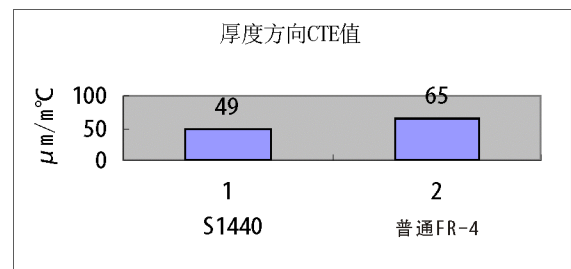
S1440

(ANSI:FR-4)UV Blocking

Water absorption at pressure cooker



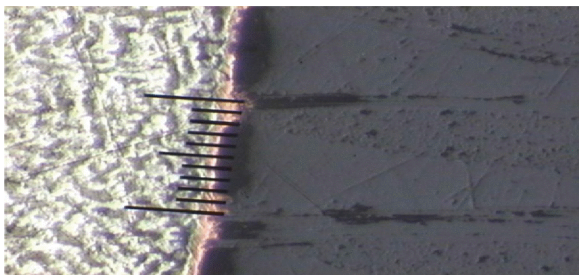
CTE



热冲击孔壁质量

条件： 288 \pm 5 $^\circ\text{C}$ / 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 to 105 μm	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.

Сайфони
технология