



# S1141

(UL ANSI:FR-4)UV Blocking

## 特点

- Tg140℃ (DSC)。
- UV Blocking/AOI兼容。
- 优良的机械加工性能。

## 应用领域

电脑、仪器仪表、摄像机、通讯设备、电子游戏机、汽车、航空等。

## FEATURES

- Tg140℃ (DSC).
- UV Blocking/AOI Compatible.
- Excellent mechanical processability.

## APPLICATIONS

Computer, Instrumentation, VCR, communication equipment, electronic game machine, automotive electronics, aviation, and etc.

## GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data	
			SPEC	Typical Value
Tg	DSC	℃	≥130	140
Flammability	C-48/23/50	Rating	V-0	V-0
	E-24/125			
Volume Resistivity	After moisture resistance	MΩ-cm	≥10 <sup>6</sup>	5.2×10 <sup>6</sup>
	E-24/125		≥10 <sup>3</sup>	5.2×10 <sup>6</sup>
Surface Resistivity	After moisture resistance	MΩ	≥10 <sup>4</sup>	5.4×10 <sup>7</sup>
	E-24/125		≥10 <sup>3</sup>	5.6×10 <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	288℃, solder dip	>10s	60s
	Etched		No delamination	No delamination
Peel Strength	1oz	288℃, 10s	≥1.05	1.8
	Cu. Foil	125℃	≥0.70	1.6
Flexural Strength	LW	A	≥415	600
	CW		≥345	500
Water Absorption	D-24/23	%	≤0.80	0.15
CTE Z-axis	Before Tg	TMA	μm/m℃	65
	After Tg	TMA	μm/m℃	300
	50~260℃	TMA	%	4.5
Td	10℃/min, N <sub>2</sub> , 5% Wt Loss	℃	-	310
T260	TMA	min	-	15
T288	TMA	min	-	2
CTI	IEC60112 Method	V	PLC 3(175V--249V)	PLC 3

Remarks: 1. Specification sheet: IPC-4101/21, is for your reference only.  
 2. All the typical value is based on the 1.6mm specimen, while the Tg is for specimen ≥0.50mm.  
 3. All the typical value listed above is for your reference only, please turn to Shengyi Sci. Tech. Co., Ltd. for detailed information, and all rights from this data sheet are reserved by Shengyi Sci. Tech. Co., Ltd.

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.