



S1141

(UL ANSI:FR-4.0)UV Blocking

特点

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

FEATURES

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

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。
 不适用于有CAF要求的应用。
 不适用于2OZ以上厚铜、HDI及12层以上的高多层板。

APPLICATIONS

Computer, Instrumentation, VCR, communication equipment, electronic game machine, automotive electronics, aviation, and etc.
 Not suitable for Anti-CAF application.
 Not suitable for >2oz heavy copper, HDI and ≥12L high layer count application

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 ⁶	5.2×10 ⁸	
	E-24/125		≥10 ³	5.2×10 ⁶	
Surface Resistivity	After moisture resistance	MΩ	≥10 ⁴	5.4×10 ⁷	
	E-24/125		≥10 ³	5.6×10 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 Etched	288℃, solder dip	-	>10s	60s
				No delamination	No delamination
Peel Strength	1oz Cu. Foil	288℃, 10s 125℃	N/mm	≥1.05	1.8
				≥0.70	1.6
Flexural Strength	LW	A	MPa	≥415	600
	CW			≥345	500
Water Absorption	D-24/23	%	≤0.80	0.15	
CTE Z-axis	Before Tg	TMA	PPM/℃	-	65
	After Tg	TMA	PPM/℃	-	300
	50~260℃	TMA	%	-	4.5
Td	10℃/min, N ₂ , 5% Wt Loss	℃	-	-	310
T260	TMA	min	-	-	15
T288	TMA	min	-	-	2
CTI	IEC60112 Method	Rating	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 Technology Co., Ltd. for detailed information, and all rights from this data sheet are reserved by Shengyi Technology 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.