

S1600L

(UL ANSI: FR-4.0) High CTI, Multilayer

FEATURES

• High CTI

Anti-CAF capability

• Excellent through-hole reliability

APPLICATIONS

PDP, LCD, TV Refrigerator Power supplier Washing machine

GENERAL PROPERTIES

Test Items	Test Method	Test Condition	Unit	Typical Value
Ta	IPC-TM-650 2.4.25D	DSC °C		135
Tg	IPC-TM-650 2.4.24.4 DMA °C		$^{\circ}$	150
Td	IPC-TM-650 2.4.24.6	TGA (5% W.L)	$^{\circ}$	355
T288	IPC-TM-650 2.4.24.1	TMA	min	27
T260	IPC-TM-650 2.4.24.1	TMA	min	>60
Thermal Stress	IPC-TM-650 2.4.13.1	288°C, solder dip s		>60
	IPC-TM-650 2.4.24	4.24 Before Tg ppm/°C		45
CTE (Z-axis)	IPC-TM-650 2.4.24	After Tg	ppm/℃	240
	IPC-TM-650 2.4.24	50-260°C	%	3.2
Permittivity (1GHz)	IPC-TM-650 2.5.5.9	C-24/23/50	-	5.0
Loss Tangent (1GHz)	IPC-TM-650 2.5.5.9	C-24/23/50 -		0.014
Volume Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90 MΩ-cm		2.1×10 ⁸
Surface Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	ΜΩ	3.2×10 ⁷
Arc Resistance	IPC-TM-650 2.5.1	D-48/50+D-0.5/23	S	151
Dielectric Breakdown	IPC-TM-650 2.5.6	D-48/50+D-0.5/23	kV	>45
Peel Strength (1oz)	IPC-TM-650 2.4.8	288°C/10s N/mm [lb/in]		1.5 [8.57]
Flexural Strength (LW/CW)	IPC-TM-650 2.4.4	A	Мра	540/470
Water Absorption	IPC-TM-650 2.6.2.1	D-24/23 %		0.15
Flammability	UL94	C-48/23/50	Rating	V-0
СТІ	IEC60112	A	Rating	PLC 0 (≥600V)

Remarks: 1. Specification sheet: IPC-4101/101, is for your reference only.

- 2. All the typical value is based on the 1.6mm (8*7628) specimen.
- 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.



S1600LB PREPREG

(UL ANSI: FR-4.0) Bonding Prepreg For S1600L

PREPREG PARAMETERS

Glass fabric type	Resin content (%)	Cured thickness (mm)	Standard size (Roll type)
	46	0.190	
7628	48	0.200	1.260m×150m
	50	0.210	
	52	0.110	
2116	55	0.120	1.260m×250m
	58	0.130	

Other type, resin content and size could be available upon request, and some other prepreg types such as 106, 1080, 2116 RC<52%,7628 RC<46% may not satisfy CTI≥600V, please turn to ShengYi Technology Co., Ltd for detailed information

HOT PRESSING CYCLE

- The heat-up rate depends on the inner copper or the structure of multilayer PCB.
- Curing time: >45min (180~190°C).
- If you need any more detail information, please turn to Shengyi Technology Co., Ltd.

STORAGE CONDITION

- 3 months when stored at < 23°C and <50% RH.
- 6 months when stored at <5°C. Normalize in room temperature for at least 4h before using.
- Beware of moisture, always keep wrapped in damp-proof material. Keeping in normal condition, prepreg might absorb moisture and its bonding strength would be weakened.

PURCHASING INFORMATION

Thickness	Copper foil	Standard size
0.075mm to	12um to 105	1,020mm×1,220mm(40"×48") 915mm×1,220mm(36"×48")
3.2mm	um	1,070mm×1,220mm(42"×48")

Remarks: Other sheet size and thickness could be available upon request.