S1000H



FEATURES

- Anti-CAF capability
- Lead-free compatible
- Low water absorption
- Excellent thermal reliability
- Excellent through-hole reliability.

GENERAL PROPERTIES

APPLICATIONS

Instruments Computer and NB Consumer electronics Automotive electronics Power supplier and Industrial

Test Items	Test Method	Test Condition	Unit	Typical Value
Ta	IPC-TM-650 2.4.24.4	DMA	°C	160
Tg	IPC-TM-650 2.4.25D	DSC	h	155
Td	IPC-TM-650 2.4.24.6	TGA (5% W.L)	Ĉ	348
T288	IPC-TM-650 2.4.24.1	ТМА	min	20
T260	IPC-TM-650 2.4.24.1	ТМА	min	>60
Thermal Stress	IPC-TM-650 2.4.13.1	288℃, solder dip	S	>100
CTE (Z-axis)	IPC-TM-650 2.4.24	Before Tg	ppm/℃	37
	IPC-TM-650 2.4.24	After Tg	ppm/℃	230
	IPC-TM-650 2.4.24	50-260 ℃	%	2.8
Permittivity (1GHz)	IPC-TM-650 2.5.5.9	C-24/23/50	-	4.6
Loss Tangent (1GHz)	IPC-TM-650 2.5.5.9	C-24/23/50	-	0.011
Volume Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ-cm	1.5×10 ⁸
Surface Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ	3.5×10 ⁷
Arc Resistance	IPC-TM-650 2.5.1	D-48/50+D- 0.5/23	S	150
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℃/10s	N/mm [lb/in]	1.3 [7.43]
Flexural Strength (LW/CW)	IPC-TM-650 2.4.4	А	Мра	530/440
Water Absorption	IPC-TM-650 2.6.2.1	D-24/23	%	0.09
Flammability	UL94	C-48/23/50	Rating	V-0
CTI	IEC60112	A	Rating	PLC 3

Remarks: 1. Specification sheet: IPC-4101/99, 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.



S1000HB PREPREG

(ULANSI: FR-4.0) Bonding Prepreg For S1000H

PREPREG PARAMETERS

Glass fabric type	Resin content (%)	Cured thickness (mm)	Standard size (Roll type)	
106/1037	73	0.050	1.260m×150m	
	78	0.063		
	65	0.072		
1080/1078	68	0.081	1.260m×300m	
	70	0.087		
2313	57	0.100		
2116	55	0.120	1.260m×250m	
	58	0.130		
1506	48	0.160		
7628	46	0.195		
	48	0.205	1.260m×150m	
	50	0.215		
	52	0.225		

Other type, resin content and size could be available upon request.

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 $<5^{\circ}$ 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.
- Avoid UV-rays and strong light.

PURCHASING INFORMATION

Thickness	Copper foil	Standard size	
0.05mm to	10	1,020mm ×1,220mm(40"×48")	915mm ×1,220mm(36"×48")
3.2mm	12um to 105 um	1,070mm ×1,220mm(42"×48")	

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