



S2131

(UL ANSI: CEM-3.0) UV Blocking

FEATURES

- Longer drill bit life
- Punching process applicable
- Excellent electrical properties
- UV blocking and AOI compatible
- PTH reliability equivalent to FR-4.0

APPLICATIONS

ATM, Game machine, Household appliances, Automotive electronics, Apparatus, and instrument

For applications with CAF requirements, recommend customer to carry a systematic assessment of its reliability.

GENERAL PROPERTIES

Test Items	Test Method	Test Condition	Unit	Typical Value
Tg	IPC-TM-650 2.4.25D	DSC	°C	130
Thermal Stress	IPC-TM-650 2.4.13.1	288°C, solder dip	s	>30
CTE (Z-axis)	IPC-TM-650 2.4.24	Before Tg	ppm/°C	60
	IPC-TM-650 2.4.24	After Tg	ppm/°C	340
	IPC-TM-650 2.4.24	50-260°C	%	5.2
Permittivity (1MHz)	IPC-TM-650 2.5.5.9	C-24/23/50	-	4.5
Loss Tangent (1MHz)	IPC-TM-650 2.5.5.9	C-24/23/50	-	0.016
Volume Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ-cm	5.4×10 ⁸
Surface Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ	7.6×10 ⁷
Arc Resistance	IPC-TM-650 2.5.1	D-48/50+D-0.5/23	s	115
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]	1.9 [10.86]
Flexural Strength (LW/CW)	IPC-TM-650 2.4.4	A	MPa	400/320
Water Absorption	IPC-TM-650 2.6.2.1	D-24/23	%	0.11
Flammability	UL94	C-48/23/50	Rating	V-0
CTI	IEC60112	A	Rating	PLC 3

- Remarks:
1. Specification sheet: IPC-4101/12, is for your reference only.
 2. All the typical value is based on the 1.6mm 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.

PURCHASING INFORMATION

Thickness	Copper foil	Standard size
0.63mm to 3.2mm	18um to 105 um	915mm ×1,220mm(36"×48") 1,020mm ×1,220mm(40"×48") 1,070mm ×1,220mm(42"×48")

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