



# WLM1

## High Tg, White Color PCB Substrate for Mini-LED Backlight

### FEATURES

- Lead-free compatible
- White Color PCB Substrate for Mini-LED Backlight
- excellent consistency with thermal and blue light aging

### APPLICATIONS

- Mini-LED Backlight

### GENERAL PROPERTIES

Test Items	Test Method	Test Condition	Unit	Typical Value
Reflectivity	T/CPCA 4107	A	%	91
Tg	IPC-TM-650 2.4.24.4	DMA	°C	180
Td	IPC-TM-650 2.4.24.6	TGA (5% W.L)	°C	374
T288	IPC-TM-650 2.4.24.1	TMA	min	>60
T260	IPC-TM-650 2.4.24.1	TMA	min	>60
Thermal Stress	IPC-TM-650 2.4.13.1	288°C, solder dipping	s	>100
CTE (Z-axis)	IPC-TM-650 2.4.24	Before Tg	ppm/°C	26
	IPC-TM-650 2.4.24	After Tg	ppm/°C	125
	IPC-TM-650 2.4.24	50-260°C	%	1.9
Arc Resistance	IPC-TM-650 2.5.1	D-48/50+D-0.5/23	s	180
Flammability	UL94	C-48/23/50,E-24/125	Rating	HB
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]	0.7 [4.0]
Flexural Strength (LW/CW)	IPC-TM-650 2.4.4	A	Mpa	480/370
Water Absorption	IPC-TM-650 2.6.2.1	E-1/105+D-24/23	%	0.08

Remarks: 1. All the typical value is based on the 1.0mm specimen.

2. 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
0.05mm to 0.50mm	12um to 70 um	1,020mm×1,220mm(40"×48") 915mm ×1,220mm(36"×48") 1,070mm ×1,220mm(42"×48")

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