



# S1150G

(UL ANSI: FR-4.1) High Performance, Mid-Tg Halogen-free

## 特点

- 不含卤素、锑、红磷等成分。  
废弃燃烧时不产生剧毒气体和残留有毒成分
- 优良的机械加工性和耐热性，与无铅制程兼容

## FEATURES

- Free of constituents such as halogen, antimony, red phosphorous, ect. No toxic gas emission and no hazardous residue during waste combustion.
- Excellent mechanical processibility and thermal resistance, lead free process compliancy.

## 应用领域

智能手机，平板电脑，笔记本电脑  
LED，游戏机  
汽车电子  
通讯设备

## APPLICATIONS

Smartphone, Tablet, NB  
LED, Game station  
Automotive electronics  
Communication equipment

## GENERAL PROPERTIES

Items	Condition	Unit	Property Data	
			Spec	Typical Value
Tg	DSC	°C	≥150	155
Flammability	C-48/23/50	Rating	V-0	V-0
	E-24/125			
Volume Resistivity	After moisture resistance	MΩ-cm	≥10 <sup>6</sup>	1.15E+08
	E-24/125		≥10 <sup>3</sup>	4.13E+08
Surface Resistivity	After moisture resistance	MΩ	≥10 <sup>4</sup>	9.61E+06
	E-24/125		≥10 <sup>3</sup>	5.37E+07
Arc Resistance	D-48/50+D-0.5/23	S	≥60	178
Dielectric Breakdown	D-48/50+D-0.5/23	KV	≥40	45KV+NB
Dielectric Constant	(1GHz)	C-24/23/50	-	4.5
	(1MHz)	C-24/23/50	-	≤5.4
Dissipation Factor	(1GHz)	C-24/23/50	-	0.011
	(1MHz)	C-24/23/50	-	≤0.035
Thermal Stress	288°C, solder dip	-	>10s No Delamination	>100s No Delamination
Peel Strength (1 Oz)	288°C/10s	N/mm	≥1.05	1.5
Flexural Strength	LW	Mpa	≥415	630
	CW		≥345	480
Water Absorption	D-24/23	%	≤0.5	0.10
CTE(Z-axis)	Before Tg	PPM/°C	≤60	40
	After Tg	PPM/°C	≤300	230
	50-260°C	%	≤3.5	2.8
Td	Wt5%loss	°C	≥325	355
T260	TMA	min	≥30	60
T288	TMA	min	≥5	45

Specimen thickness: 1.6mm. Test method is according to IPC TM-650.

Remarks: 1.Specification sheet:IPC-4101/128, 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 °C and with the third digit the relative humidity.