



SM-630-4 (CTI600)

尚茂電子材料股份有限公司

ShineMore Technology Materials Co.

Website: <http://www.shinemore.com.tw>

UL/ANSI: No ANSI

UL FILE: E199230

Updated: 12/28/2018

(IPC-4101/97)

General Specification:

Thickness		Copper Cladding		Standard Size	
<u>inch</u>	<u>(mm)</u>	<u>oz</u>	<u>(μm)</u>	<u>inch</u>	<u>(mm)</u>
0.003	(0.076)	3/8	(12)	37 x 49	(941 x 1246)
to		to		41 x 49	(1043 x 1246)
0.125	(3.175)	12	(420)	43 x 49	(1094 x 1246)

Characteristics:

- Resin system: Multi-functional Epoxy
- Woven E-Glass
- HTE Copper Foil

Features:

- High CTI value (Grade 0, ≥ 600 V)
- UV Blocking and AOI Performance
- Excellent dimensional stability and thickness uniformity
- Superior thermal and chemical resistance
- Fit IPC-4101/97
- Tg $\geq 130^{\circ}\text{C}$ (DSC)

Applications:

- Household appliances (or white goods, such as washing machine, or air conditioner, etc.)
- Computer & Peripheral
- Consumer Electronics

Remark : Not recommended for Lead-free process.

	Test Items	Units Metric (English)	Test Condition	IPC Spec.	Typical Value	Test Method (IPC-TM-650)
Electrical	CTI	V	C-96/20/65	>600	>600	2.4.24
	Dielectric Constant (1 MHz)	---	C-96/23/50	< 5.4	4.6	2.5.5.2
	Dissipation Factor (1 MHz)	---	C-96/23/50	< 0.035	0.018	2.5.5.2
	Volume Resistivity	MΩ -cm	C-96/23/50	> 10 ⁶	> 10 ¹¹	2.5.17.1
	Surface Resistivity	MΩ	C-96/23/50	> 10 ⁴	> 10 ¹⁰	2.5.17.1
Physical	Flexural Strength	N/mm ²	Length direction Cross direction	>415 >345	>450 >375	2.4.4
	Moisture absorption	%	E-24/50+d-24/23	< 0.8	< 0.2	2.6.2.1
	Peel strength (1oz)	N/mm (lb/in)	As Received	1.05 (6.0)	1.40 (8.0)	2.4.8
Thermal	Glass Transition Temp.	°C	DSC	>110	>130	2.4.25
	Thermal stress	sec	288°C Solder dipping	> 10	> 60	2.4.13.1
	Flammability	---	A&E-24/125	V-0	V-0	UL 94

※ Specification Sheet : IPC- 4101/97

● Ordering Information

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NOTE

1. Typical Values are for information purpose only.
2. Any sale of these products will be governed by the terms and conditions of the agreement under which they are sold.