

FEATURES

- Halogen-Free & High CTI Material
- Lead-Free compatible
- Constituents Free of Halogen Free, and red phosphorus
- UV Blocking/AOI compatible
- High CTI, CTI \geq 600V

APPLICATIONS

- Communications Equipment
- Mobile phone, computer, instrumentation
- VCR, TV, Electronic Game Machine

PRODUCT CONTACTS

FRED HICKMAN

VP of NA HSD OEM Marketing
Email: Fredhickman@syst.com.cn
Phone: 602-722-4053

Web: www.shengyi-usa.com

GENERAL PROPERTIES

TEST ITEMS		TREATMENT CONDITION	UNIT	PROPERTY DATA	
				SPEC	TYPICAL VALUE
Tg		DSC	°C	≥ 140	150
Flammability		C-48/23/50, E-24/125	Rating	UL94 V-0	UL94 V-0
		E-24/125+des			
Volume Resistivity		After moisture resistance	M Ω -cm	$\geq 10^6$	6.4×10^7
		E-24/125		$\geq 10^3$	5.3×10^6
Surface Resistivity		After moisture resistance	M Ω	$\geq 10^4$	4.8×10^7
		E-24/125		$\geq 10^3$	2.8×10^6
Arc Resistance		D-48/50+D-0.5/23	S	≥ 60	140
Dielectric Breakdown		D-48/50+D-0.5/23	KV	≥ 40	45+KV NB
Dielectric Constant (1MHz)		C-24/23/50	-	≤ 5.4	4.5
Dissipation Factor (1MHz)		C-24/23/50	-	≤ 0.035	0.010
Thermal Stress	Unetched	288 °C, solder dip	-	>10s No Delamination	Pass
	Etched				
Peel Strength 1OZ CU. Foil		288°C/10s	N/mm	≤ 1.05	1.4
		125°C		≤ 0.70	1.3
		After Process Solutions		≤ 0.80	1.3
Flexural Strength	LW	A	Mpa	≥ 415	600
	CW			≥ 345	450
Water Absorption		D-24/23	%	≤ 0.5	0.10
CTE Z-axis	Before Tg	TMA	PPM/°C	≤ 60	36
	After Tg	TMA	PPM/°C	≤ 300	220
	50-260°C	TMA	%	≤ 3.5	2.8
Td		10°C/min, N ₂ , 5%Wt Loss	°C	≥ 325	360
T288		TMA	min	≥ 5	15
T260		TMA	min	≥ 30	60
CTI		IEC60112	Rating	PLC 0 (≥ 600)	PLC 0 (≥ 600)

⁽¹⁾ Typical values are a representation of an average value for the population of the property. For specification values contact SYTECH Corporation. The information in this data sheet is intended to assist you in designing with SYTECH's circuit materials. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that any results shown in this data sheet will be achieved by a user for a particular purpose. The user is responsible for determining the suitability of SYTECH's circuit materials for each application.