

## FEATURES

- Lower Z-Axis CTE for improved through hole reliability
- Excellent Mechanical Processability and Thermal Resistance
- Leadfree Compatible & CAF Resistant

## APPLICATIONS

- High layer count PCBs
- Automotive Electronics
- Computing & Communications
- Military & Aerospace

## PRODUCT CONTACTS

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## GENERAL PROPERTIES

Web: [www.shengyi-usa.com](http://www.shengyi-usa.com)

	PROPERTY	TYPICAL VALUE	UNITS	CONDITION	TEST METHOD
Thermal	Glass Transition Temperature, Tg	185	°C	A	DMA IPC-TM-650 2.4.24.2
		180	°C	A	DSC IPC-TM650 2.4.25
	Thermal Expansion, Z CTE	41	ppm/°C	A	Before Tg, IPC-TM-650 2.4.41
		208	ppm/°C	A	After Tg, IPC-TM-650 2.4.41
	Decomposition Temperature, Td	355	°C	A	TMA IPC-TM650 2.4.24.6
	Delamination Time, T260	60	minutes	A	TMA IPC-TM650 2.4.24
	Delamination Time, T288	30	minutes	A	TMA IPC-TM650 2.4.24
Delamination Time, T300	15	minutes	A	TMA IPC-TM650 2.4.24	
Electrical	Dielectric Constant (Dk) SPDR at 56% RC	4.49	-	1 GHz	IPC-TM-650 2.5.5.9
		4.9	-	1 MHz	IPC-TM-650 2.5.5.9
	Dissipation Factor (Df) SPDR at 56% RC	0.016	-	1 GHz	IPC-TM-650 2.5.5.9
		0.015	-	1 MHz	IPC-TM-650 2.5.5.9
	Volume Resistivity	8.66E+08	MΩ·cm	After moisture resistance	IPC-TM-650 2.5.17.1
	Surface Resistivity	2.17E+07	MΩ	After moisture resistance	IPC-TM-650 2.5.17.1
Dielectric Breakdown	45+NB	kV	D-48/50+D-0.5/23	IPC-TM-650 2.5.6	
Physical	Thermal Conductivity	0.7	W/m·K	100°C	ASTM D5470
	Water Absorption	0.08	%	D-24/23	IPC-TM-650 2.6.2.1
	Copper Peel Strength	1.3 (7.4)	N/mm (lb/in.)	after solder float 1 oz. EDC Foil	IPC-TM-650 2.4.8
	Flammability	94V-0	-	A	UL

## PRODUCT SPECIFICATION

THICKNESS	COPPER FOIL	STANDARD SIZE
0.002"-0.125" (0.05mm to 3.2mm)	3/8 oz. - 3oz. (12um - 105um)	40" x 48" (1020mm x 1220mm)
0.002"-0.125" (0.05mm to 3.2mm)	3/8 oz. - 3oz. (12um - 105um)	42" x 48" (1070mm x 1220mm)
0.002"-0.125" (0.05mm to 3.2mm)	3/8 oz. - 3oz. (12um - 105um)	36" x 48" (915mm x 1220mm)

<sup>(1)</sup> 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.