

## GENERAL PROPERTIES

PROPERTY	TYPICAL VALUE	DIRECTION	UNITS	CONDITION	TEST METHOD
Tg	160 170	-	°C	DSC DMA	IPC-TM-650 2.4.25D IPC-TM-650 2.4.24.4
Td	400	-	°C	TGA (5% W.L)	IPC-TM-650 2.4.24.6
T288	60	Z	min	TMA	IPC-TM-650 2.4.24.1
T260	60	Z	min	TMA	IPC-TM-650 2.4.24.1
Thermal Stress	Pass	-	s	288 °C, solder dip	IPC-TM-650 2.4.13.1
CTE (Z-axis)	32 200 2.4	Z	ppm/°C ppm/°C %	Before Tg After Tg 50-260 °C	IPC-TM-650 2.4.24 IPC-TM-650 2.4.24 IPC-TM-650 2.4.24
Permittivity	3.98	Z	-	C-24/23/50, 10GHz	IPC-TM-650 2.5.5.5
Loss Tangent	0.012	Z	-	C-24/23/50, 10GHz	IPC-TM-650 2.5.5.5
Volume Resistivity	6.0×10 <sup>8</sup>	Z	MΩ-cm	C-96/35/90	IPC-TM-650 2.5.17.1
Surface Resistivity	8.0×10 <sup>7</sup>	-	MΩ	C-96/35/90	IPC-TM-650 2.5.17.1
Arc Resistance	148	-	s	D-48/50+D-0.5/23	IPC-TM-650 2.5.1
Dielectric Breakdown	>45	Z	kV	D-48/50+D-0.5/23	IPC-TM-650 2.5.6
Peel Strength (1oz)	1.5 [8.57]	-	N/mm [lb/in]	288 °C /10s	IPC-TM-650 2.4.8
Flexural Strength (LW/CW)	560/480	-	Mpa	A	IPC-TM-650 2.4.4
Water Absorption	0.08	-	%	D-24/23	IPC-TM-650 2.6.2.1
Flammability	V-0	-	Rating	C-48/23/50	UL94

## PRODUCT SPECIFICATION

PRODUCT	STANDARD THICKNESS	STANDARD PANEL SIZE	COPPER FOIL
AUTOLAD1G	0.05mm~3.2mm	1,020mm×1,220mm(40"×48") 915mm×1,220mm(36"×48") 1,070mm×1,220mm(42"×48")	12um~105um



<sup>(1)</sup>All the typical value is based on the 1.6mm (8\*7628) specimen. The Dk and Df value is based on 55% RC.  
<sup>(2)</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.