



Q360G

(UL ANSI: CEM-1) Halogen-Free CEM-1

FEATURES

- Good mechanical processability
- Halogen, antimony and red phosphorus free
- High CTI

APPLICATIONS

Power supplier
Game machine
Household appliances

GENERAL PROPERTIES

Test Items	Test Method	Test Condition	Unit	Typical Value	
Thermal Stress	IPC-TM-650 2.4.13.1	288°C, solder float	s	>20	
Z-CTE	IPC-TM-650 2.4.24	50-260°C	%	6.2	
Permittivity (1MHz)	IPC-TM-650 2.5.5.9	C-24/23/50	-	4.5	
Loss Tangent (1MHz)	IPC-TM-650 2.5.5.9	C-24/23/50	-	0.018	
Volume Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ-cm	6.1×10 ⁸	
Surface Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ	5.2×10 ⁷	
Arc Resistance	IPC-TM-650 2.5.1	D-48/50+D-0.5/23	s	115	
Dielectric Breakdown	IPC-TM-650 2.5.6	D-48/50+D-0.5/23	kV	>45	
Peel Strength (1oz)	IPC-TM-650 2.4.8	288°C/10s	N/mm [lb/in]	1.5 [8.57]	
Flexural Strength (LW/CW)	IPC-TM-650 2.4.4	A	Mpa	400/320	
Water Absorption	IPC-TM-650 2.6.2.1	D-24/23	%	0.15	
Flammability	UL94	C-48/23/50	Rating	V-0	
CTI	IEC60112	A	Rating	PLC 0 (≥600V)	
Halogen Content	Br	EN 14582	A	ppm	≤900
	Cl				≤900
	Br+Cl				≤1500

- Remarks:
1. Specification sheet: IPC-4101/15 and JPCA, is for your reference only.
 2. All the typical value is based on the 1.6mm specimen.
 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.

PURCHASING INFORMATION

Thickness	Copper foil	Standard size
0.63mm to 3.2mm	18um to 105 um	915mm ×1,220mm(36"×48") 1,020mm ×1,220mm(40"×48") 1,070mm ×1,220mm(42"×48")

Remarks: Other sheet size and thickness could be available upon request.