Q260

(UL ANSI: CEM-3.0) Thermal Conductive CEM-3

FEATURES

- Good thermal conductivity
- High CTI
- Good cost effective
- Excellent mechanical process ability

APPLICATIONS

Power base board
LED display and lighting
Household electrical machine

GENERAL PROPERTIES

Test Items	Test Method	Test Condition	Unit	Typical Value
Thermal conductivity	ASTM5470	A	W/(m·K)	1.0
Tg	IPC-TM-650 2.4.25D	DSC	℃	122
Thermal Stress	IPC-TM-650 2.4.13.1	288℃, solder dip	s	>30
CTE (Z-axis)	IPC-TM-650 2.4.24	Before Tg	ppm/℃	28
	IPC-TM-650 2.4.24	After Tg	ppm/℃	265
	IPC-TM-650 2.4.24	50-260℃	%	3.5
Permittivity (1MHz)	IPC-TM-650 2.5.5.9	C-24/23/50	-	4.8
Loss Tangent (1MHz)	IPC-TM-650 2.5.5.9	C-24/23/50	-	0.014
Volume Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ-cm	5.7×10^{8}
Surface Resistivity	IPC-TM-650 2.5.17.1	C-96/35/90	MΩ	6.7×10^{7}
Arc Resistance	IPC-TM-650 2.5.1	D-48/50+D-0.5/23	s	140
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℃/10s	N/mm [lb/in]	1.5 [8.57]
Flexural Strength (LW/CW)	IPC-TM-650 2.4.4	A	Mpa	410/340
Water Absorption	IPC-TM-650 2.6.2.1	D-24/23	%	0.13
Flammability	UL94	C-48/23/50	Rating	V-0
CTI	IEC60112	A	Rating	PLC0 (≥600V)

Remarks: 1. Specification sheet: IPC-4101/12, 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.