T68
Graphite Sheets

T68 is a highly oriented pyrolytic graphite sheet with high thermal conductivity. A heat source can reduce temperature by spreading heat over the T68. It is flexible and has features of ultra-thin and high EMI shielding effect.

Features

Excellent thermal conductivity: 1600 W/mK (4x as high as copper, 7x as high as aluminium)
Lightweight: Specific gravity: 2.3g/cm3
Flexible and easy to be cut or trimmed
Low thermal resistance
Low moisture content: ‹1%

Applications

Smart phones, mobile phone, NB, Tablet PC
LED backlight, PDP / LCD / OLED display, High power LED
DVC, DVS, PC card

Properties

Property		Test Methods	T68
Thickness (µm)		Micrometer	25
Thermal conductivity (W/m.k)	XY axis	AC calorimeter	1600
	Z axis	Laser flash	5
Thermal diffusivity (cm2/S)		AC calorimeter	8.75
Density (g/cm3)		Archimedes law	2.26
Electrical conductivity (S/cm)		JIS K7194	18000
Flexibility		MIT	Flexible

Rating and Characteristics

Type	Adhesive Type		Laminated Type		
	One side with adhesive	One side with adhesive	One side with PET, one with adhesive	One side with PET, one with adhesive	One side with PET, one with adhesive
Front face	-	-	PET 30 µm	PET 10 µm	PET 30 µm
Rear face	Adhesive tape 30µm	Adhesive tape 10µm	Adhesive tape 30µm	Adhesive tape 10µm	Adhesive tape 10µm
Structure					
Edge shape	-	-	No envelope 1.5mm envelope	No envelope 1.5mm envelope	No envelope 1.5mm envelope
Features	Withstanding voltage: 2 kV	Withstanding voltage: 1 kV	Withstanding voltage: PET tape: 4 kV Adhesive tape: 2kV	Withstanding voltage: PET tape: 1 kV Adhesive tape: 1kV	Withstanding voltage: PET tape: 4 kV Adhesive tape: 1kV
Withstand Temp.	100ºC	100ºC	100ºC	100ºC	100ºC
Size	290 x 290mm	290 x 290mm	290 x 290mm	290 x 290mm	290 x 290mm
25 µm — Part No.	T68-1A	T68-1B	T68-2A	T68-2B	T68-2C
25 µm — Thickness	55µm	35µm	85µm	45µm	65µm

Tel: +44 20 8133 2062   Email: sales@tglobaltechnology.com   Web: www.tglobaltechnology.com   Skype: tglobal.technology