



T68

Synthetic Graphite Sheet

REACH Compliant

RoHS Compliant

Features

- Ultra high thermal conductivity, electrical conductivity and EMI shielding
- Flexible and bendable
- Ultra thin, low mass, environmental friendly

Application:

Suitable for products requiring flat temperature

Electronic Components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

Properties

Properties	Unit	T68	Tolerance	Test Method
Thermal Conductivity (XY axis)	W/m•K	1500	±100	AC Calorimeter
Thermal Conductivity (Z axis)	W/m•K	5	±10%	Laser Flash
Thickness	μm	25	-	Micrometer
Thermal Diffusivity	cm²/s	8.5	±0.5	AC Calorimeter
Density	g/cm³	2.1	±5%	Archimedes Law
Electrical Conductivity	S/cm	>13000	-	JIS K7194
Bending Test	times	10000	-	-
Operating Temperature	°C	-40~+400	-	AC Calorimeter
Heat Capacity (SHC)	J/g-K	0.895	-	-

Properties	T68	T68A	T68AP	T68APF
Processing	No processing	With insulating double-sided adhesive tape underneath (10μm/30μm)	1. Standard PET tape on the top (10μm/30μm) 2. Insulating 2-sided adhesive tape on the bottom (10μm/30μm)	1. Standard PET tape on the top (10μm/30μm) 2. Insulating 2-sided adhesive tape on the bottom (10μm/30μm) 3. Edge banding
Structure	Graphite Sheet	Graphite Sheet 2-Sided Adhesive Tape Release Paper	PET Tape Graphite Sheet 2-Sided Adhesive Tape Release Paper	PET Tape Graphite Sheet 2-Sided Adhesive Tape Release Paper
Feature	<ul style="list-style-type: none"> · Great thermal conductivity and softness · Low thermal resistance · Working temperature up to 400°C · Electrically conductive 	<ul style="list-style-type: none"> · Insulating and adhesive on one side · Great adhesion, stick closely to the case · Breakdown voltage: 1KV 	<ul style="list-style-type: none"> · Both surfaces electrically isolated · PET Tape: 1KV · 2-sided adhesive tape: 1KV 	<ul style="list-style-type: none"> · Both surfaces electrically isolated · PET Tape: 1KV · 2-sided adhesive tape: 1KV
Heat Resistant Temperature	400°C	100°C	80~100°C	80~100°C
Total Thickness	25μm	35μm/55μm	45μm/85μm	45μm/85μm

※Die-cut for different shapes

※Available to apply adhesive

T-Global USA LLC

2880 Zanker Road, Suite 103, San Jose, CA 95134, USA

T +1(669)345-0002 E usa@tglobal-usa.com W www.tglobal-usa.com

Version20
20250211



NOTICE: The information contained herein is to the best of our knowledge true and accurate. Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. All specifications are subject to change without notice. The protective film and release paper do not affect the function of the product. If there is no special requirement, the default depends on T-Global. Since the varied conditions of potential use are beyond our control, all recommendations or suggestions are presented with out guarantee or responsibility on our part and users should make their own test to determine the suitability of our products in any specific situation. This product is sold without warranty either expressed or implied, of fitness for a particular purpose or otherwise, except that this product shall be of standard quality, and except to the extent otherwise stated in T-Global Technology's invoice, quotation, or order acknowledgment. We disclaim any and all liabilities incurred in connection with the use of information contained herein, or otherwise. All risks of such are assumed by the user. Furthermore, nothing contained herein shall be construed as a recommendation to use any process or to manufacture or to use any product in conflict with existing or future patents covering any product or material or its use.