



# PRODUCT BROCHURE

More Innovation,  
Less Heat.

Thermal Simulation

Thermal Interface

Material

Heat Pipe

Vapor Chamber

Heat Sink

TEC

FAM

Fan



One-stop  
Thermal Shop

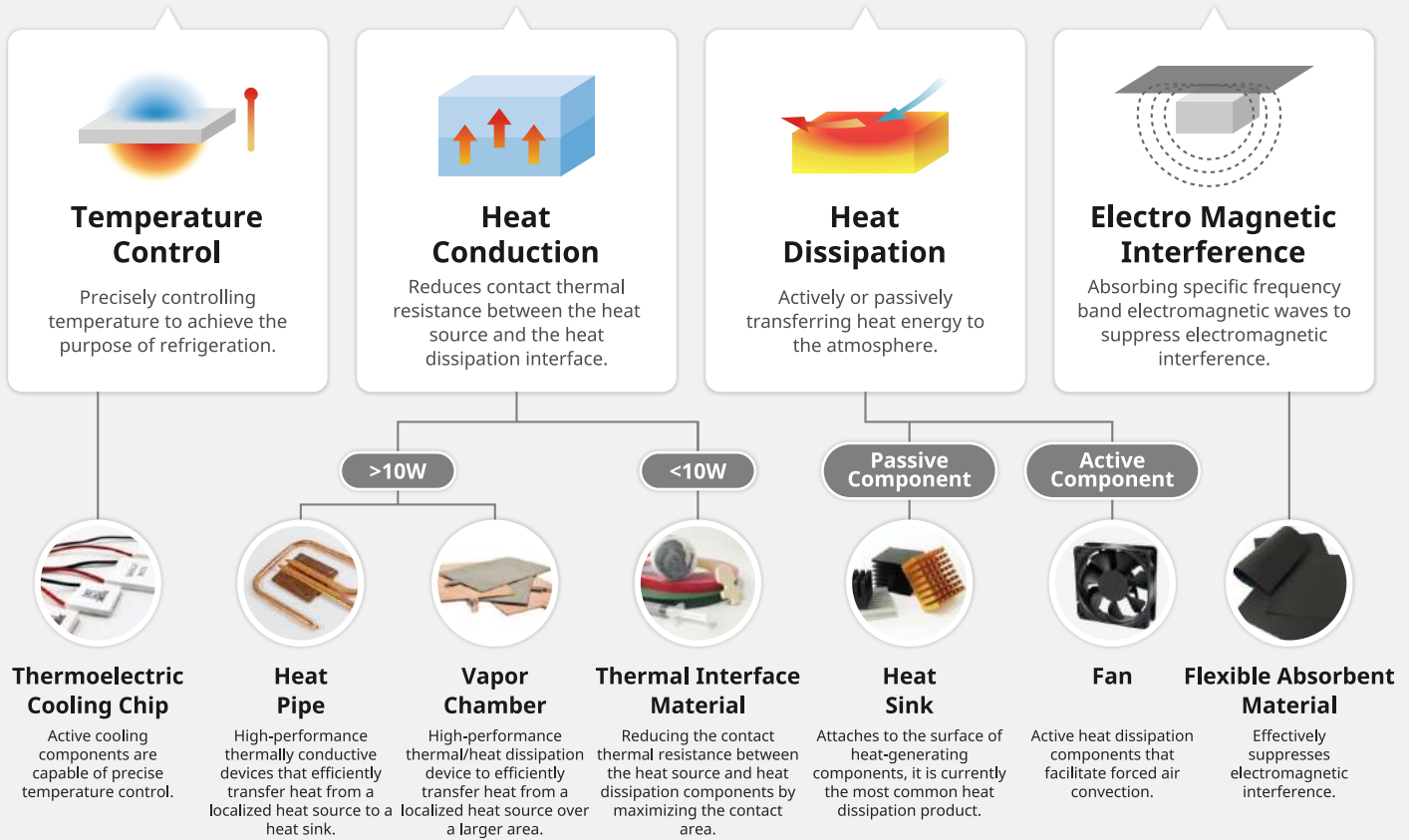


Customization

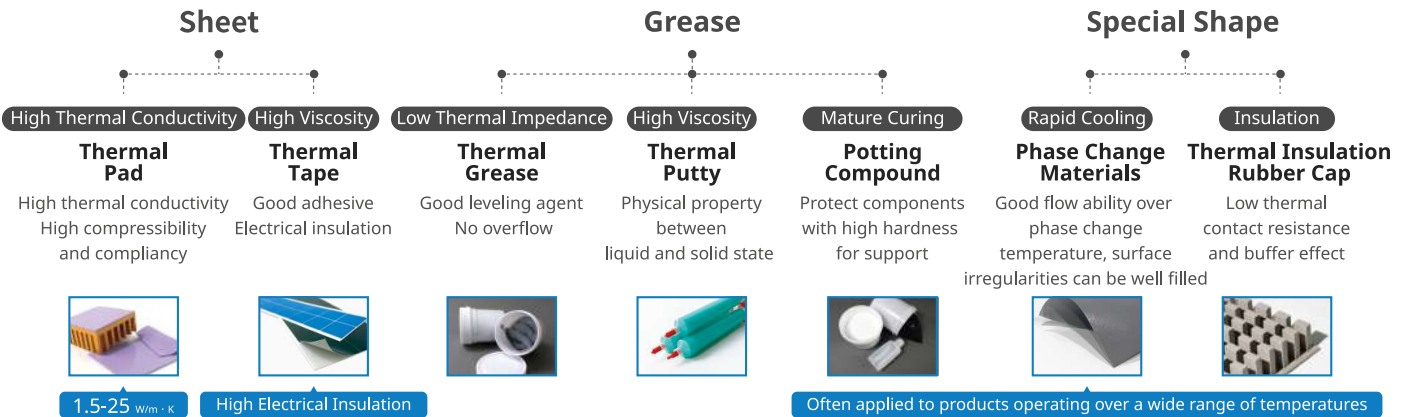


Professional  
Consulting

# Which product is most suitable for you?



## Z Axis Heat Conduction



## XY Axis Heat Conduction



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## CONTACT US

**US** | San Jose  
usa@tglobalcorp.com

**UK** | Lutterworth  
sales@tglobaltechnology.com

**JP** | Shinagawa  
japan@tglobalcorp.com

**KR** | Gyeonggi-do  
daniel@tglobalcorp.com

**CN** | Dongguan  
dg5@tglobalcorp.com

**CN** | Kunshan  
kunshan@tglobalcorp.com

**TW** | Taoyuan  
service@tglobalcorp.com

# XL-25

## Ceramic Heat Spreader

Open-porous structure increases air contact area.



Properties	Unit	XL-25	Test Method
Thermal Conductivity	W/m·K	10	-
Color	-	Gray/Green	-
Dielectric Breakdown Voltage	KV/mm	≥0.5	ASTM D149
Bulk Density	g/cm <sup>3</sup>	1.89	CNS 619
Flexural Strength	kgf/cm <sup>2</sup>	47.5	CNS 12701
Porosity	%	25	CNS 619
Water Absorption	%	16	CNS 619
Operating Temperature	°C	<500	-
Linear Thermal Expansion Coefficient	10 <sup>-6</sup>	4.13	RT-300°C
Main Composition	-	SiC/Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub>	-
Hardness	Moh's	5~6	DIN En101-1992

# XL-25 series

## Ceramic Heat Spreader

Excellent reliability. Non toxic. High temperature resistance.



Properties	Unit	XL-25W	XL-25D	Test Method
Thermal Conductivity	W/m·K	25	190~210	-
Color	-	White	Dark Gray	-
Dielectric Breakdown Voltage	KV/mm	≥15	≥18.45	ASTM D149
Bulk Density	g/cm <sup>3</sup>	≥3.8	3.32	CNS 619
Volume Resistance	Ohm·m	10 <sup>12</sup>	1.4x10 <sup>13</sup>	-
Flexural Strength	kgf/cm <sup>2</sup>	4078.8	3416	CNS 12701
Linear Thermal Expansion Coefficient	10 <sup>-6</sup>	6.6~8	2.805	RT-300°C
Main Composition	-	Al <sub>2</sub> O <sub>3</sub>	AlN	-

# Heat Pipe

Fast heat-balancing.  
Passive components. Light-weighted.



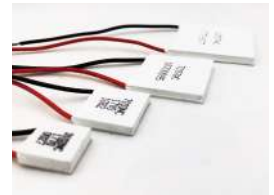
Diameter(mm)	Thickness(mm)	Width(mm)
Ø4	2	5.65
	2.5	5.55
	3	5.45
Ø5	2	6.91
	2.5	6.59
	3	6.32
	3.5	6.01
Ø6	4	5.68
	2	8.50
	2.5	8.18
	3	7.95
Ø8	3.5	7.65
	4	7.39
	2	11.65
	2.5	11.39
	3	11.15
	3.5	10.83
	4	10.60
4.5	10.27	
5	10.01	
6	9.36	

• Thickness tolerance: +0.05/-0.10mm • Width tolerance: +0.15/-0.20mm

# TEC

## Thermoelectric Cooling Chip

Small bulk. Light weight. Vibration-free. Noise-free.  
Precise temperature control. High strength for rugged environments.



Size(mm)	Height(mm)	I <sub>max</sub> (A)	V <sub>max</sub> (V)	Watt(W)	@27° Q <sub>max</sub> (W)	@50° Q <sub>max</sub> (W)	R(Ω)
15×15	3.1	6.0	3.8	22.8	13	14.3	0.45Ω±10%
	3.4	8.5	2.1	17.9	10.3	11.3	0.20Ω±10%
	3.6	3.9	3.8	14.8	8.6	9.5	0.85Ω±10%
	3.8	3.0	3.8	11.4	7.3	8.0	1.00Ω±10%
	3.9	6.0	2.1	12.6	7.4	8.2	0.30Ω±10%
	4.7	2.0	3.8	7.6	4.4	5.0	1.65Ω±10%
20×20	3.1	6.0	8.8	52.8	29.7	32.7	1.05Ω±10%
	3.4	8.5	3.8	32.3	18.8	20.8	0.35Ω±10%
	3.6	3.9	8.8	34.3	18.7	20.9	1.95Ω±10%
	3.8	3.0	8.8	26.4	16.6	18	2.20Ω±10%
	3.9	6.0	3.8	22.8	13.6	14.9	0.55Ω±10%
30×30	4.7	2.0	8.8	17.6	10.2	11.2	3.70Ω±10%
	3.15	6.0	15.7	94.2	53.1	59.1	1.90Ω±10%
	3.45	8.5	8.8	74.8	43.1	48	0.85Ω±10%
	3.65	3.9	15.7	61.2	35.2	39	3.50Ω±10%
	3.85	3.0	15.7	47.1	29.8	32.5	4.00Ω±10%
	3.95	6.0	8.8	52.8	31.1	34.2	1.25Ω±10%
	3.95	6.0	11.8	70.8	48	52.8	1.65Ω±10%
40×40	4.75	2.0	15.7	31.4	18.2	19.5	6.70Ω±10%
	3.45	8.5	15.7	133.5	77.1	85	1.50Ω±10%
	3.95	6.0	15.7	94.2	55.6	61	2.20Ω±10%

• The above are our standard sizes. For other special sizes, please contact our product consultants.

# Vapor Chamber

Horizontally conduction. Passive components.  
High stability. Efficiency higher than heat pipe 10 times.

- Step 1 | RFQ**  
Submission of technical requirement through T-Global Website
- Step 2 | Specification**  
Configuration of heat allocation, source area and power
- Step 3 | Proposal**  
System analysis with solution
- Step 4 | Kick off**  
Milestones per production plan

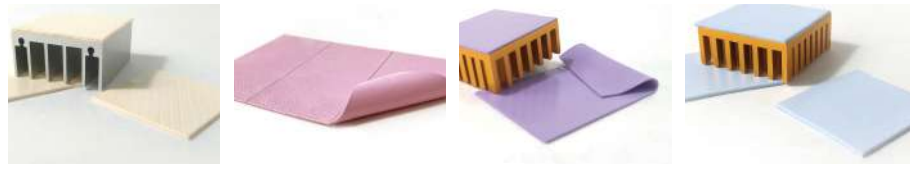
Size (mm)	Q-Max		
	Thickness (mm)		
	2.0	3.0	4.0
60X80	50	70	90
90X90	80	120	160
100X100	140	200	260
120X80	130	200	250
180X150	160	250	300
200X120	200	300	400
350X100	220	350	450

Different industries will require different specifications, please contact us directly for the most suitable specifications.

# TG-A series

## Ultra Soft Thermal Pad

High thermal conductivity. High compressibility and compliancy.  
Electrical insulation. Natural tack.



Properties	Unit	TG-A2200	TG-A3500	TG-A4500	TG-A6200	TG-A9000	TG-A1250	TG-A1450	TG-A1660	TG-A1780	Test Method
Thermal Conductivity	W/m·K	2.2	3.5	4.5	6.2	9.0	12.5	14.5	16.6	17.8	ASTM D5470 Modified
Thickness	mm	0.5~2.0	0.5~8.0	0.5~8.0	0.5~8.0	0.5~8.0	0.5~8.0	0.5~2.0	0.5~2.0	0.5~2.0	ASTM D374
Color	-	Gray	Yellow	Purple	Blue	Pink	Green	Pink	Dark Gray	Light Gray	Colorimeter CIE 1976
Flame Rating	-	V-1	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0	UL94
Dielectric Breakdown Voltage	KV/mm	≥13	≥13	≥10	≥10	≥8	≥10	≥8	≥7	≥8	ASTM D149
Weight Loss	%	<1									ASTM E595 Modified
Density	g/cm <sup>3</sup>	2.7	2.3	3.1	3.1	3.2	3.3	3.6	3.6	3.5	ASTM D792
Operating Temperature	°C	-40~+180	-50~+180								-
Volume Resistivity	Ohm-m	3x10 <sup>12</sup>	8x10 <sup>12</sup>	1x10 <sup>13</sup>	1x10 <sup>13</sup>	1x10 <sup>12</sup>	1x10 <sup>13</sup>	7x10 <sup>12</sup>	5x10 <sup>12</sup>	6x10 <sup>12</sup>	ASTM D257
Elongation	%	55	80	50	50	40	40	30	20	20	ASTM D412
Standard Format	-	Sheet									-
Hardness (Silicone Side)	Shore OO	15	35	50	50	50	55	55	65	70	ASTM D2240

# TG-A

## Fiberglass Mesh Series Thermal Pad

Very good thermal conductivity. Fiberglass on one side.  
Non deforming. Electrical insulation.



Properties	Unit	TG-A3500F	TG-A4500F	TG-A6200F	Test Method
Thermal Conductivity	W/m·K	3	4	5	ASTM D5470 Modified
Thickness	mm	0.5~8.0			ASTM D374
Color	-	Yellow	Purple	Blue	Colorimeter CIE 1976
Reinforcement Carrier	-	Fiberglass Mesh			-
Flame Rating	-	V-0			UL94
Dielectric Breakdown Voltage	KV/mm	≥18	≥11	≥12	ASTM D149
Weight Loss	%	<1			ASTM E595 Modified
Density	g/cm <sup>3</sup>	2.3	3.1	3.1	ASTM D792
Operating Temperature	°C	-50~+180			-
Volume Resistivity	Ohm-m	8x10 <sup>12</sup>	1x10 <sup>13</sup>	1x10 <sup>13</sup>	ASTM D257
Elongation	%	80	50	50	ASTM D412
Standard Format	-	Sheet			-
Hardness (Silicone Side)	Shore OO	35	50	50	ASTM2240

# GT10D / TG-ALC Series

## Ultra Thin Thermal Pad

Smooth surface. Usable over a wide temperature range.  
Electrical insulation and high breakdown voltage.



Properties	Unit	GT10D	TG-ALC	TG-A6200LC	TG-A1250LC	Test Method
Thermal Conductivity	W/m·K	1.5	4.2	5	10	ASTM D5470 Modified
Thickness	mm	0.25	0.2/0.3	0.5~2.5	1.0~4.0	ASTM D374
Color	-	Pink	Green	Pad-Blue LC-Green	Pad-Green LC-Green	Colorimeter CIE 1976
Reinforcement Carrier	-	Fiberglass mesh	-	-	-	-
Flame Rating	-	-	V-0			UL94
Dielectric Breakdown Voltage	KV	≥6	≥4	≥6	≥6	ASTM D149
Weight Loss	%	<0.2	<1			ASTM E595 Modified
Density	g/cm <sup>3</sup>	2	2.9	3	3.3	ASTM D792
Operating Temperature	°C	-45~+180	-50~+180			-
Volume Resistivity	Ohm-m	>10 <sup>12</sup>	1x10 <sup>12</sup>	1x10 <sup>10</sup>		ASTM D257
Elongation	%	50	10	50	40	ASTM D412
Tensile Strength	kgf/cm <sup>2</sup>	150	-	-	-	ASTM D412
Standard Format	-	Sheet				-
Hardness (Silicone Side)	Shore	A 75	A 60	OO 50	OO 60	ASTM D2240

# TG-APC Series

## Non-silicone Thermal Pad

Non siloxane and oil-bleed.  
Ultra soft and great elongation.



Properties	Unit	PC93	PC94	Test Method
Thermal Conductivity	W/m·K	2.1	4.2	ASTM D5470 Modified
Thickness	mm	0.5~5.0		ASTM D374
Color	-	Gray	Red	Colorimeter CIE 1976
Flame Rating	-	V-0		UL94
Dielectric Breakdown Voltage	KV/mm	≥10.2		ASTM D149
Weight Loss	%	<1		ASTM E595 Modified
Density	g/cm <sup>3</sup>	2.1	2.5	ASTM D792
Operating Temperature	°C	-30~+125		-
Volume Resistivity	Ohm-m	>10 <sup>10</sup>		ASTM D257
Elongation (Silicone side)	%	350	100	ASTM D412
Tensile Strength	kgf/cm <sup>2</sup>	1	2	ASTM D412
Standard Format	-	Sheet		-
Hardness (Silicone Side)	Shore OO	55	50	ASTM2240

# TG-AK series

## High Performance Thermal Pad

Great thermal conductivity. Difficult to be deformed.  
Easy to assemble.

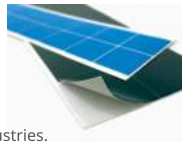


Properties	Unit	TG-A20KX	TG-A38KX	TG-A20KF	TG-A38KF	Test Method
Thermal Conductivity	W/m·K	2	3.8	1.8	3.3	ASTM D5470 Modified
Thickness	mm	0.3~10.0		0.5~10.0		ASTM D374
Color	-	Dark Gray	Blue	Dark Gray	Blue	Colorimeter CIE 1976
Reinforcement Carrier	-	-		Fiberglass Mesh		-
Flame Rating	-	V-0				UL94
Dielectric Breakdown Voltage	KV/mm	≥12	≥10	≥13	≥10	ASTM D149
Weight Loss	%	<1				ASTM E595 Modified
Density	g/cm <sup>3</sup>	2	3.1	2.1	3.1	ASTM D792
Operating Temperature	°C	-40~+180	-40~+200	-40~+180	-40~+200	-
Volume Resistivity	Ohm-m	3x10 <sup>12</sup>				ASTM D257
Elongation (Silicone side)	%	160	110	160	110	ASTM D412
Standard Format	-	Sheet				-
Hardness (Silicone Side)	Shore OO	55	60	55	60	ASTM2240



# TG-T1000 Series

## Thermal Tape



Good adhesion(Acrylic PSA). Great reliability. Cost effective with great performance. Easy to assemble. Customization services for different industries.

Properties	Unit	TG-T1000		TG-T1000T	Test Method
Thermal Conductivity	W/m·K	1	1	1.3	ASTM D5470 Modified
Thickness	mm	0.15	0.25	0.11	ASTM D374
Color	-	White		Gray	-
Reinforcement Carrier	-	Fiberglass Mesh		PET	-
Operating Temperature	°C	-30~+120		-40~+120	-
Short Time Use Temperature (30sec)	°C	180		200	-
Density	g/cm <sup>3</sup>	1.2		1.5	ASTM D792
Initial Tack	cm	19	11	24	PSTC-6
Holding Power 1000g @25° Cusing 1in <sup>2</sup>	min	>3000		>1000	PSTC-7
180° Peeling Strength (Aluminum)	N/25mm	>14	>16	≥7	PSTC-101
Dielectric Breakdown Voltage (AC)	KV	≥3	≥6	≥4	ASTM D149
Thermal Impedance @10psi	°C*in <sup>2</sup> /W	0.93	1.26	0.68	ASTM D5470 Modified
Thermal Impedance @30psi	°C*in <sup>2</sup> /W	0.76	1.06	0.66	ASTM D5470 Modified
Thermal Impedance @50psi	°C*in <sup>2</sup> /W	0.61	1.05	0.65	ASTM D5470 Modified

# Thermal Grease



Good leveling agent. No overflow. Effectively fill the gap of the interface.

Properties	Unit	TG-AS808 / TG-S808	TG-N909	TG-AS606B / S606B	TG-AS606C / S606C	Test Method
Thermal Conductivity	W/m·K	8	9	1.9	5.3	ASTM D5470 Modified
Color	-	Gray	Gray	White	Gray	-
Oil Dispersible	wt%	<0.1		<0.2	<0.05	24hrs@150°C
Weight Loss	wt%	<0.1		<0.5		ASTM E595 Modified
Density	g/cm <sup>3</sup>	2.9	2.85	2.2	2.95	ASTM D792
Operating Temperature	°C	-40~+200		-40~+180		-
Viscosity	Pa·s	350(±100)	300(±100)	200(±80)	150(±50)	Brookfield
Volume Resistivity	Ohm·m	> 10 <sup>13</sup>		> 10 <sup>11</sup>	> 10 <sup>12</sup>	ASTM D257
Standard Package	-	Pot		Tube / Pot		-

# Thermal Putty



Low thermal resistance. Shapeable and compressible.

Properties	Unit	TG4040 PUTTY	TG6060 PUTTY	TG-A7000 PUTTY	TG-N8000 PUTTY	Test Method
Thermal Conductivity	W/m·K	3.2	6.3	7.0	8.0	ASTM D5470 Modified
Color	-	Blue		Green	Yellow	-
Viscosity	Pa·s	250(±100)	270(±50)	250(±100)	430(±100)	Brookfield
Density	g/cm <sup>3</sup>	2.9	3.3	3.25	3	ASTM D792
Volume Resistivity	Ohm·m	10 <sup>13</sup>			>10 <sup>10</sup>	ASTM D257
Operating Temperature	°C	-50~+180			-40~+125	-
Standard Package	-	Tube/Pot				-

# Potting Compound

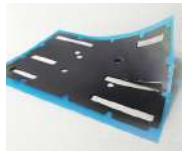


High stability. Heat curing.

Properties	Unit	TG-A720AB / S720AB	TG-A730AB / S730AB	TG-A96AB / A96AB	TG-A09AB	Test Method
Thermal Conductivity	W/m·K	0.8	2.1	2.6	2.8	ASTM D5470 Modified
Color	-	White	Gray	Gray(Mix)	Gray(Mix)	-
Dielectric Breakdown Voltage	KV/mm	≥12	≥11	≥11	≥11	ASTM D149
Weight Loss	%	<1	-	<1	<1	ASTM E595 Modified
Volume Resistivity	Ohm·m	-	1X10 <sup>12</sup>	-	≥10 <sup>12</sup>	ASTMD257
Density	g/cm <sup>3</sup>	1.97	2.3	2.5	2.52	ASTM D792
Operating Temperature	°C	-40~+180	-50~+200	-25~+150	-50~+150	-
Viscosity	Pa·s	2~10	6~12	1.8~2.5	10~50	Brookfield
Curing Time @25° C	Hrs	18	3	12	6	-
Standard Package	-	Pot	Pot/Tube	Pot	Pot	-
Hardness	Shore	A 50	A 60	A 68	OO 90	ASTM D2240
Mixing Ratio	gram	100:2	1:1	13:1	1:1	-

# T68

## Artificial Graphite Sheet



High thermal conductivity. Low mass.

Properties	Unit	T68	Test Method
Thermal Conductivity (XY Axis)	W/m·K	1500	AC Calorimeter
Thermal Conductivity (Z Axis)	W/m·K	5	Laser Flash
Thickness	µm	25	Micrometer
Flame Rating	-	V-0	UL94
Thermal Diffusivity	cm <sup>2</sup> /s	8.5	AC Calorimeter
Density	g/cm <sup>3</sup>	2.1	Archimedes Law
Electrical Conductivity	S/cm	>13000	JIS K7194
Bending Test	times	10000	-
Operating Temperature	%	-40~+400	AC Calorimeter
Heat Capacity (SHC)	J/g·K	0.895	-

# T62

## Natural Graphite Sheet



Low mass decreases space, EMI reduction.

Properties	Unit	T62	T62-1	T62-2	Test Method
Thermal Conductivity (XY Axis)	W/m·K	400			AC Calorimeter
Thermal Conductivity (Z Axis)	W/m·K	20	15	5	Laser Flash
Thickness	mm	0.13	0.16	0.2	Micrometer
Color	-	Black			-
Structure	-	Graphite	Graphite +Adhesive	PET+Graphite +Adhesive	-
Density	g/cm <sup>3</sup>	1.5	1.5~1.8		ASTM D792
Graphite Contained	%	>98			-
Operating Temperature	°C	-40~+400	-30~+100		-

# TG-P100 series

## Graphene

Ultra thin, Available for unventilated design,  
No dusting issue.



Properties	Unit	TG-P10050	TG-P10090	Test Method
Thermal Conductivity (XY axis)	W/m·K	1500~1800		AC Calorimeter
Thermal Conductivity (Z axis)	W/m·K	12		Laser Flash
Total Thickness	μm	50	90	Meter
Copper Foil Thickness	μm	35	75	Meter
Coating Thickness	μm	15		Meter
Vertical Resistivity(XY axis)	Ohm-inch <sup>2</sup>	2.57		QJ1523-1988
Parallel Resistivity(Z axis)	Ohm-inch <sup>2</sup>	0.66		QJ1523-1988
Cross-Cut Tape Test	-	4B		ASTM D3359B
Pencil Hardness Test	-	2H		ASTM D3363
Solvent Resistance (Alcohol)	-	Pass(5 times)		ASTM D5402
Rubber Abrasive Test	-	Pass(150 times)		ASTM D7835
High Temperature & Humidity Test @85° C/85%RH	-	Pass(500 hrs)		IEC-60068-2-78
Thermal Shock Test@-20~+80°C	-	Pass(500 cycles)		IEC-60068-2-14
Temperature Range	°C	-20~+120		ISO 16750-4

# TG-V series

## Phase Change Material

With the good flow ability over phase change temperature,  
surface irregularities can be well filled.



Properties	Unit	TG-V833	TG-V838	Test Method
Thermal Conductivity	W/m·K	3.3	3.8	ASTM D5470 Modified
Thickness	mm	0.13/0.2		ASTM D374
Color	-	Gray		-
Phase Transition Temperature	°C	50		-
Breakdown Voltage (AC)	KV	≥1		ASTM D149
Density	g/cm <sup>3</sup>	3.4	2.5	ASTM D792
Operating Temperature	°C	-40~+125		-
Volume Resistivity	Ohm-m	3x10 <sup>11</sup>	3x10 <sup>10</sup>	ASTM D257
Thermal Impedance @10psi	°C*in <sup>2</sup> /W	0.621	0.546	ASTM D5470 Modified
Thermal Impedance @30psi	°C*in <sup>2</sup> /W	0.544	0.487	ASTM D5470 Modified
Thermal Impedance @50psi	°C*in <sup>2</sup> /W	0.512	0.454	ASTM D5470 Modified
Dielectric Constant @1KHz	-	13.3		ASTM D150

# TG-FAM series

## Flexible Absorbent Material

Provide effective EMI suppression in a wide frequency range.

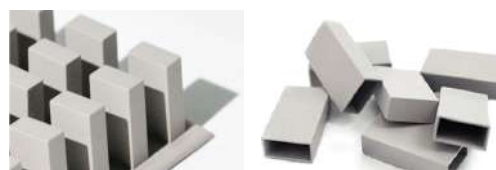


Properties	Unit	TG-FAM1	TG-FAM3	TG-FAM6	TG-FAM7
Frequency	GHz	0.001-18.0			0.001-3.0
Thickness	mm	0.12-2.50	0.25/0.50/0.75	0.05/0.1/0.2/0.3/0.5	0.08/0.12/0.22
Maximum Size	mm	400 x 400		210 x 297(A4 Size)	130 x 130
Material	-	Magnetic Particles+Rubber			Sintering Iron-core
Magnetic Inductivity (μ' <sup>l</sup> @1MHz)	-	25	50	170	140
Halogen	-	Halogen Contained		Halogen Free	
Operating Temperature	°C	-40~+85		-40~+155	-30~+120
Density	g/cm <sup>3</sup>	3.6	4.8	4.4	3.8
Surface Resistance	Ohm	10 <sup>6</sup>		10 <sup>5</sup>	10 <sup>9</sup>

# CP series

## Thermal Insulation Rubber Cap

Low thermal contact resistance. Electrically isolating. Easy to assemble.



Properties	Unit	CP22/CP23/CP33	Test Method
Thermal Conductivity	W/m·K	2	ASTM D5470 Modified
Thickness	mm	0.3/0.45	ASTM D374
Color	-	Gray	-
Operating Temperature	°C	-45~+180	-
Density	g/cm <sup>3</sup>	2.55	ASTM D792
Dielectric Breakdown Voltage (AC)	KV	≥4.1/6.1	ASTM D149
Dielectric Breakdown Voltage (DC)	KV	≥6.1/8.1	ASTM D149
Dielectric Constant	1000 Hz	5.8	ASTM D150
Thermal Impedance @10psi	°C*in <sup>2</sup> /W	1.13	ASTM D5470 Modified
Thermal Impedance @20psi	°C*in <sup>2</sup> /W	1.07	ASTM D5470 Modified
Thermal Impedance @50psi	°C*in <sup>2</sup> /W	0.97	ASTM D5470 Modified
Hardness	Shore A	65	ASTM D2240

## Online Instant Calculator /

# Fast Evaluation of Suitable Thermal Solutions



- ❑ Stuck with thermal testing?
- ❑ How much heat dissipation would my design need?
- ❑ Struggling with what thermal interface material or component to apply?

Save Time on Testing and Explore  
More Possibilities with our **Thermal Solutions**

STEPS

1

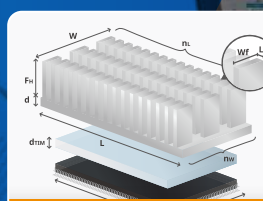
Enter Dissipation  
Mechanism Data

2

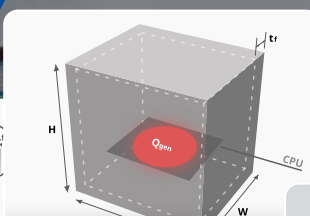
Receive Recommendation  
of Thermal Solution Products

3

Improve Design and  
Save Time and Money



Open System



Closed System

New!



Heat Pipe

Try now!

