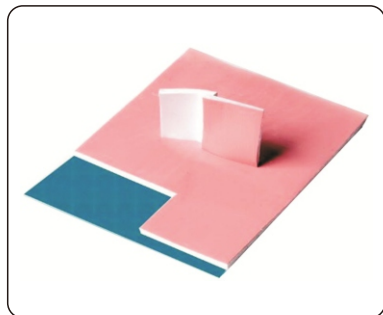


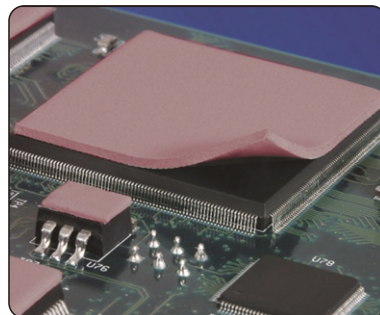
Company Profile

SinoGuide Technology Ltd. is a reputable developer and manufacturer of products in the field of **Thermal Interface Materials** and **Electromagnetic Shielding materials**.

Shenzhen factory was founded with the domestic largest R&D center and production of polymer electronic materials, Sinoguide has advance and high precision testing instruments; including a reliability lab. Accredited with ISO 9001, ISO14001 & TS16949 system.



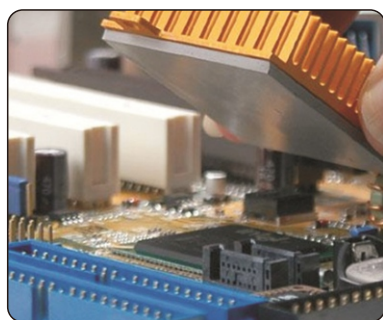
Ultra Soft Thermal Pad
FG Reinforcement



Exceptionally Soft
High Conformability



High Deflation
Less Stress Application



Innovative Carbon
Fiber Alignment
Premium Thermal Pad



3D Mould
Gap Filler



Thermal Putty
Auto-Dispensing

Product Catalogue, Ver: 06

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Sinoguide Technology Ltd.

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Overview of Thermal Gap Pad Family

Widely Used Thermal Conductive Pad Selection Guide (1.0~7.5 /m.k)

Typical Properties of 1.0-7.5W/m.k Thermal Gap Pad									
Properties	Units	TCP100	TCP150	TCP200	TCP300	TCP500	TCP600	TCP750	TCP110U
Color	--	Pink	Lt. Blue	Orange	Blue	Violet	Light Green	Dark Pink	Pink/White
Reinforcement Carrier	--	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Fiberglass
Thickness	mm	0.3-8.0	0.3-8.0	0.3-8.0	0.3-8.0	0.3-8.0	0.3-8.0	0.3-8.0	0.3-10.0
Hardness	Shore 00	35	40	45	40	45	50	55	5, 15 Shore C
Continuous Use Temp		-60 to 200							
ELECTRICAL									
Breakdown Voltage	Kv/mm	?9	?9	?9	?6.0	?6.0	?6.0	?6.0	?6.0
Volume Impedance	ohm-cm	?4x10 ¹²	?5x10 ¹²	?3.6x10 ¹³	?1.1X10 ¹⁴	?1.1X10 ¹⁴	?6.5X10 ¹⁰	?6.5x10 ¹⁰	?6.2X10 ¹⁵
Dielectric Constant	1MHz	5.27	5.2	6	6.8	6.6	6.5	6.8	5.5
Flame Rating	UL94	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0
THERMAL									
Thermal Conductivity	W/m.K	1.0	1.5	2.0	3.0	5.0	6.0	7.5	1.1

Selection guide for Premiun Thermal Pad

Typical Properties of Premium Thermal Pad				
Properties	Units	AL20	AL50	Test Method
Construction & Composition	--	Silicone Elastomer with Carbon Fiber Alignment	Silicone Elastomer with Carbon Fiber Alignment	--
Color	--	Black	Black	Visual
Thickness	mm	0.30 to 3.0	0.30 to 3.0	--
Hardness	Shore A	20	50	ASTM D2240
Continuous Use Temp		-60 to 200		EN344
Breakdown Voltage	(AC kV/mm)	<0.1	<0.1	ASTM D149
Flame Rating		V 0	V 0	UL 94
Thermal Conductivity	W/m.k	35	50	ASTM D5470

Selection guide for Thermal Conducitve Absorber

TYPICAL PROPERTIES OF TCP150AB			
PROPERTY	Unit	METRIC VALUE	TEST METHOD
Color	/	Dark Gray	Visual
Thickness	mm	0.30~3.5	---
Hardness	Shore 00	60	ASTM D2240
Electromagnetic			
Permeability	--	8+/-20%,(U') @1MHz	Agilent E4991A
	--	3.5+/-20%,(U') @1MHz	
	--	2+/-20%,(U') @1MHz	
Power Loss	--	1.0mm, 20%	@1GHz
	--	2.0mm, 23%	
	--	3.0mm, 26%	
Surface Resistivity	ohm-cm	> 1.0 x10 ¹²	ASTM D257
THERMAL			
Thermal Conductivity	W/m.k	1.5	ASTM D5470

SINOGUIDE TECHNOLOGY LIMITED

FLAT/RM 01 21/F PROSPER COMMERCIAL BUILDING 9 YIN CHONG STREET KOWLOON HONGKONG
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Technical Data Sheet

TCP100 Series Thermal Conductive Pad

Features:

- ◇ 1.00 W/mk thermal conductivity
Low Hardness, Cost effective which is made through advanced manufacturing Process
Electrically Insulating

Applications:

- ◇ Between heat-generation Component and and heatsink.
LED/LCD TV, Graphics Cards, Telecom device.
Wireless Hub, Power Supply
Portable Charge

TYPICAL PROPERTIES OF TCP100		
PROPERTY	METRIC VALUE	TEST METHOD
Color	Pink	Visual
Thickness (mm)	0.3~8.0	----
Hardness (Shore 00)	35	ASTMD2240
Density (g/cc)	1.75	ASTMD792
Tensile Strength (Psi)	20	ASTMD412
Elongation (%)	60%	ASTMD412
Percent Deflection@ 3mm, 60psi	65%	ASTMD575
Continuous Use Temp ()	-50 to 200	EN344
ELECTRICAL		
Breakdown Voltage (VAC/mil)	M200	ASTMD149
Dielectric Constant (1MHz)	6.5	ASTMD150
Volume Impedance (ohm-cm)	4.50×10^{13}	ASTMD257
Flame Rating	V0	UL 94
THERMAL		
Thermal Conductivity (W/m.k)	1.0	ASTMD5470

Configurations Available:

Sheet size:200 x 400mm, 350x350mm , individual parts available

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Technical Data Sheet

TCP150 Series Thermal Conductive Pad

Features:

- ◇ Thermal conductivity: 1.50 W/mk
Ultra Soft, Low Thermal Resistance at Low Pressure, Fiberglass Reinforcement
Electrically insulating, Resist to puncture, shear and tear

Applications:

- ◇ Set-Top Box, Power Modules/Supply
Network Router/Adapter
LED/LCD TV, Led lighting, Telecom device.
Auto Engine, Electric Vehicle Battery

TYPICAL PROPERTIES OF TCP150		
PROPERTY	METRIC VALUE	TEST METHOD
Color	Light Blue	Visual
Thickness (mm)	0.3~8.0	---
Hardness (Shore 00)	40	ASTMD2240
Density (g/cc)	1.80	ASTMD792
Tensile Strength (Psi)	15	ASTMD412
Elongation (%)	50%	ASTMD412
Percent Deflection@ 3mm, 60psi	95%	ASTMD575
Continuous Use Temp ()	-50 to 200	EN344
ELECTRICAL		
Breakdown Voltage (VAC/mil)	M250	ASTMD149
Dielectric Constant (1MHz)	5.5	ASTMD150
Volume Impedance (ohm-cm)	6.20×10^{13}	ASTMD257
Flame Rating	V0	UL 94
THERMAL		
Thermal Conductivity (W/m.k)	1.5	ASTMD5470

Configurations Available:

Sheet size: 200 x 400mm, 350x350mm, individual parts available

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Technical Data Sheet

TCP200 Series Thermal Conductive Pad

Features:

- ◇ 2.00 W/mk thermal conductivity
- Low Thermal Resistance at Low Pressure
- Naturally tacky for easy application

Applications:

- ◇ Network Equipment, Mass Storage devices
- Industrial Automation, Telecom device.
- Smart TV stick, Wireless Hub
- Flat Panel Display, Thermal module.
- High Power supply/conversion

TYPICAL PROPERTIES OF TCP200

PROPERTY	METRIC VALUE	TEST METHOD
Color	Orange	Visual
Thickness (mm)	0.3~8.0	----
Hardness (Shore 00)	45	ASTMD2240
Density (g/cc)	2.7	ASTMD792
Tensile Strength (Psi)	20	ASTMD412
Elongation (%)	77%	ASTMD412
Percent Deflection@ 3mm, 60psi	45%	ASTMD575
Continuous Use Temp ()	-50 to 200	EN344
ELECTRICAL		
Breakdown Voltage (VAC/mil)	M250	ASTMD149
Dielectric Constant (1MHz)	6	ASTMD150
Volume Impedance (ohm-cm)	2×10^{12}	ASTMD257
Flame Rating	V0	UL 94
THERMAL		
Thermal Conductivity (W/m.k)	2.0	ASTMD5470

Configurations Available:

Sheet size: 200 x 400mm, 350x350mm, individual parts available

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Technical Data Sheet

TCP300 Series Thermal Conductive Pad

Features:

- ◇ 3.00 W/mk thermal conductivity
- Low Thermal Resistance at Low Pressure
- Naturally tacky for easy application

Applications:

- ◇ Between heat-generation Component and heatsink.
- Led Solid State Lighting, Graphics Cards, Telecom device.
- Wireless communication hardware
- Cooling Module, Thermal module.
- High Power supply/conversion

TYPICAL PROPERTIES OF TCP300		
PROPERTY	METRIC VALUE	TEST METHOD
Color	Blue	Visual
Thickness (mm)	0.30~8.0	----
Hardness (Shore 00)	40	ASTM D2240
Density (g/cc)	3.0	ASTM D792
Tensile Strength (Psi)	35	ASTM D412
Elongation (%)	85%	ASTM D412
Percent Deflection@ 3mm, 60psi	40%	ASTM D575
Continuous Use Temp ()	-50 to 200	EN344
ELECTRICAL		
Breakdown Voltage (VAC/mil)	M250	ASTM D149
Dielectric Constant (1MHz)	5.5	ASTM D150
Volume Impedance (ohm-cm)	3×10^{12}	ASTM D257
Flame Rating	V0	UL 94
THERMAL		
Thermal Conductivity (W/m.k)	3.0	ASTM D5470

Configurations Available:

Sheet size: 200 x 400mm, 350x350mm, individual parts available

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Technical Data Sheet

TCP500 Series Thermal Conductive Pad

Features:

- ◇ 5.00 W/mk thermal conductivity
Premium Thermal Pad, Low Thermal Resistance
No additional adhesive is required

Applications:

- ◇ Between heat-generation Component and and heatsink.
High-end Set Top Box, Graphics Cards, Telecom device.
Wireless communication hardware
Cooling Module, Thermal module.
Server S-RAMs, BGA packages

TYPICAL PROPERTIES OF TCP500		
PROPERTY	METRIC VALUE	TEST METHOD
Color	Violet	Visual
Thickness (mm)	0.3~8.0	---
Hardness (Shore 00)	45	ASTMD2240
Density (g/cc)	3.2	ASTMD792
Tensile Strength (Psi)	9	ASTMD412
Elongation (%)	20%	ASTMD412
Percent Deflection@ 2mm, 20psi	25%	ASTMD575
Continuous Use Temp ()	-50 to 200	EN344
ELECTRICAL		
Breakdown Voltage (VAC/mil)	M200	ASTMD149
Dielectric Constant (1MHz)	5	ASTMD150
Volume Impedance (ohm-cm)	1×10^{13}	ASTMD257
Flame Rating	V0	UL 94
THERMAL		
Thermal Conductivity (W/m.k)	5.0	ASTMD5470

Configurations Available:

Sheet size:200 x 400mm, 350x350mm , individual parts available

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Technical Data Sheet

TCP600 Series Thermal Conductive Pad

Features:

- ◇ 6.00 W/mk high thermal conductivity
- Low Thermal Resistance at Low Pressure
- Naturally tacky for easy application

Applications:

- ◇ Between heat-generation Component and heatsink.
- Automotive engine control, Graphics Cards, Telecom device.
- Wireless Hub, Military equipment, power supply.
- Cooling Module, Thermal module.
- Telecommunication Hardware

TYPICAL PROPERTIES OF TCP600		
PROPERTY	METRIC VALUE	TEST METHOD
Color	Light Green	Visual
Thickness (mm)	0.30~8.0	----
Hardness (Shore 00)	50	ASTM D2240
Density (g/cc)	3.7	ASTM D792
Tensile Strength (Psi)	8	ASTM D412
Elongation (%)	15%	ASTM D412
Percent Deflection@ 2mm, 20psi	20%	ASTM D575
Continuous Use Temp ()	-60 to 200	EN344
ELECTRICAL		
Breakdown Voltage (VAC/mil)	M200	ASTM D149
Dielectric Constant (1MHz)	6.5	ASTM D150
Volume Impedance (ohm-cm)	6.5×10^{10}	ASTM D257
Flame Rating	V0	UL 94
THERMAL		
Thermal Conductivity (W/m.k)	6.0	ASTM D5470

Configurations Available:

Sheet size: 200 x 400mm, 350x350mm, individual parts available

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Technical Data Sheet

TCP750 Series Thermal Conductive Pad

Features:

- ◇ 7.50 W/mk high thermal conductivity
- Low Thermal Resistance at Low Pressure
- Naturally tacky for easy application

Applications:

- ◇ Between heat-generation Component and and heatsink.
- Automotive engine control, Graphics Cards, Telecom device.
- Wireless Hub, Military equipment, power supply.
- Cooling Module, Thermal module.
- Telecommunication Hardware

TYPICAL PROPERTIES OF TCP750		
PROPERTY	METRIC VALUE	TEST METHOD
Color	Dark Pink	Visual
Thickness (mm)	0.3~8.0	----
Hardness (Shore 00)	55	ASTM D2240
Density (g/cc)	3.9	ASTM D792
Tensile Strength (Psi)	8	ASTM D412
Elongation (%)	15%	ASTM D412
Percent Deflection@ 2mm, 20psi	17%	ASTM D575
Continuous Use Temp ()	-60 to 200	EN344
ELECTRICAL		
Breakdown Voltage (VAC/mil)	M200	ASTM D149
Dielectric Constant (1MHz)	6.8	ASTM D150
Volume Impedance (ohm-cm)	6.5×10^{10}	ASTM D257
Flame Rating	V0	UL 94
THERMAL		
Thermal Conductivity (W/m.k)	7.5	ASTM D5470

Configurations Available:

Sheet size: 200 x 400mm, 350x350mm, individual parts available

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Technical Data Sheet

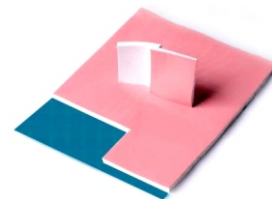
TCP110U Series Thermal Conductive Pad

Features:

Thermal conductivity: 1.10 W/mk

Fiberglass Reinforcement, Naturally tacky on one side for easy assembly

Electrically insulating, Resist to puncture, shear and tear



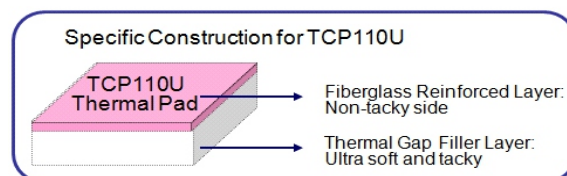
Applications:

Power Conversion/Supply

Ballast For Led Lighting, Wireless Hub, Telecom device.

Thermal module, Telecommunication Hardware

Auto Engine, Electric Vehicle Battery



TYPICAL PROPERTIES OF TCP110U

PROPERTY	METRIC VALUE	TEST METHOD
Color	Pink /White	Visual
Reinforcement Carrier	Fiberglass	---
Thickness (mm)	0.3~10.0	---
Hardness (Shore C)	5, 15	ASTM D2240
Density (g/cc)	2.20	ASTM D792
Tensile Strength (KN/m ²)	2.5	ASTM D4 12
Continuous Use Temp ()	-40 to 200	EN344
ELECTRICAL		
Breakdown Voltage (Kv)	M6.0	ASTM D149
Dielectric Constant (1MHz)	5.5	ASTM D150
Volume Impedance (ohm-cm)	1.1 x10 ¹¹	ASTM D257
Flame Rating	V 0	UL 94
THERMAL		
Thermal Conductivity (W/m.k)	1.1	ASTM D5470

Configurations Available:

Sheet size: 200 x 400mm, 350x350mm, individual parts available

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Technical Data Sheet

TCP150AB Series Thermal Conductive Absorber

Features:

- ◇ 1.50 W/mk thermal conductivity
- Low Hardness Thermal Conductive Absorber
- Easy assembly and application

Applications:

- ◇ Set-Top Box, Gateway
- LED/LCD TV, Led lighting, Telecom device.
- Network Router/Adapter
- Vehicle-interelligence Terminal

TYPICAL PROPERTIES OF TCP 150AB

PROPERTY	METRIC VALUE	TEST METHOD
Color	Dark Gray	Visual
Thickness (mm)	0.50~3.5	---
Hardness (Shore 00)	60	ASTM D2240
Density (g/cm ³)	3.00	ASTM D792
Continuous Use Temp ()	-45 to 140	EN344
Tensile Strength (MPa)	0.2	ASTM D412
Elongation (%)	8	ASTM D412
Electromagnetic		
Permeability	8+/-20%,(U') @1MHz	Agilent E4991A
	3.5+/-20%,(U') @1MHz	
	2+/-20%,(U') @1MHz	
Power Loss	1.0mm, 20%	@1GHz
	2.0mm, 23%	
	3.0mm, 26%	
Surface Resistivity (ohm-cm)	$> 1.0 \times 10^{12}$	ASTM D257
THERMAL		
Thermal Conductivity (W/m.k)	1.5	ASTM D5470

Configurations Available:

Sheet size:200 x 400mm, 350x350mm , individual parts available

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Technical Data Sheet

Design Guide For 3D Mould Thermal Conductive Pad

Features:

- ◇ Various thermal conductivity
Customerize thermal Pad for perfect compliance
Easy assembly and application

Applications:

- ◇ Mobile phone, Set-Top Box, Power Modules/Supply
Telecom device.
Network Router/Adapter
Vehicle-interelligence Terminal

TYPICAL PROPERTIES OF 3D Mould

PROPERTY	METRIC VALUE	TEST METHOD
Color	Gray, Green	Visual
Min Thickness (mm)	0.30mm	---
Hardness (Shore C)	40, 55	ASTM D2240
Density (g/cm ³)	>2.7	ASTM D792
Elongation (%)	>40%	ASTM D412
Continuous Use Temp ()	-50 to 200	EN344
ELECTRICAL		
Breakdown Voltage (VAC/mil)	M250	ASTM D149
Dielectric Constant (1MHz)	5.5	ASTM D150
Volume Impedance (ohm-cm)	>5 x10 ¹³	ASTM D257
Flame Rating	V 0	UL 94
THERMAL		
Thermal Conductivity (W/m.k)	2.0, 5.0, 6.0	ASTM D5470

Configurations Available:

Customized parts, 3D drawing is required

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Technical Data Sheet

Premium Thermal Conductive Pad

Features:

- 35 and 50 W/mk Outstanding Thermal Conductivity
- Carbon Fiber Filled, High Stability and Suitable For Extreme Environment
- Non-tacky and good rebound for easy application

Applications:

- Between heat-generation Component and heatsink.
- Highly Stable at extreme Temperature
- Required for outstanding heating transfer
- Cooling module, thermal module for special application

TYPICAL PROPERTIES OF Premium Thermal Conductive Pad

Part Number	AL20	AL50
Construction & Composition	Silicone Elastomer with Carbon Fiber Alignment	Silicone Elastomer with Carbon Fiber Alignment
Color	Black	Black
Thickness (mm)	0.50-3.0	0.50-3.0
Hardness (Shore A)	20	50
Density (g/cc)	2.4	2.4
Continuous Use Temp ()	-60 to 200	EN344
ELECTRICAL		
Dielectric Breakdown Voltage	?100	?100
(VAC/mil)		
Withstand Voltage (Vac)	?100	?100
Volume Impedance (ohm-cm)	<500	<500
Flame Rating	V0	UL 94
THERMAL		
Specific Heat Capacity	0.87 J/g-k	0.87 J/g-k
Thermal Mass	2088 kj/m ³ -k	2088 kj/m ³ -k
Thermal Conductivity (W/m.k)	7.5	ASTM D5470

Configurations Available:

Sheet size: 140 x 140mm, individual parts available

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Technical Data Sheet

EA600 Series One-component RTV Electric Conductive Silicone Rubber

Features:

- Excellent flexibility and electric conductivity
- One-component RTV conductive silicone
- 24hrs cured at room temperature

Applications:

- Communication equipment
- Base stations
- Mobile phones
- portable test and calibration equipment

TYPICAL PROPERTIES OF EA600

PROPERTY	METRIC VALUE	TEST METHOD
UNCURED CONDITION		
Color	Grey	Visual
Conductive particles	Ni/C	---
Density, g/cm ³	1.9±0.25	ASTMD792
CURED CONDITION		
Hardness, Shore A	65±7	ASTM D2240
Adhesion, N	12.00	/
Shielding Effectiveness (300 MHz - 10 GHz)	> 80 dB	Modified IEEE-299
Volume resistivity, mΩ	0.02	MIL-DTL-83528C
Compression ratio	30%	ASTM D395 Method B
Elongation at break, %	150	ASTM D412
STORAGE CONDITION		
Storage temperature	-20°C	/
Shelf life	3 Months	/

Standard packaging Available:

80g/tube; 400g/tube or customized packaging available

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Technical Data Sheet

EA800 Series One-component RTV Electric Conductive Silicone Rubber

Features:

- ◇ Excellent flexibility and electric conductivity
- One-component RTV conductive silicone
- 24hrs cured at room temperature

Applications:

- ◇ Communication equipment
- Base stations
- Mobile phones
- portable test and calibration equipment

TYPICAL PROPERTIES OF EA800

PROPERTY	METRIC VALUE	TEST METHOD
UNCURED CONDITION		
Color	Silver White	Visual
Conductive particles	Ag/Cu	---
Density, g/cm ³	2.3±0.25	ASTMD792
CURED CONDITION		
Hardness, Shore A	50±7	ASTM D2240
Adhesion, N	12.00	/
Shielding Effectiveness (300 MHz - 10 GHz)	> 90 dB	Modified IEEE-299
Volume resistivity, mΩ	0.005	MIL-DTL-83528C
Compression ratio	30%	ASTM D395 Method B
Elongation at break, %	150	ASTM D412
STORAGE CONDITION		
Storage temperature	-20°C	/
Shelf life	2 Months	/

Standard packaging Available:

80g/tube; 400g/tube or customized ackaging available

