

Thermal Silicone Rubber CTLC500

CTLC500 The high thermal pad is characterized by high thermal conductivity and good insulation performance. The raw materials of the product are made of Denka high thermal conductivity spherical alumina powder and Dow Corning polymer. It is a cost-effective thermal conductivity Insulation filling material, the natural micro-viscosity and softness of the surface can fully fill the air gap, complete the seamless heat transfer between the heat source and the heat sink, and improve the thermal conductivity. It is often used in scenarios requiring high-performance thermal conductivity, and is an ideal thermal interface material.



Product Features

- Cost effective, high thermal conductivity, low thermal resistance.
- High fit, soft and elastic.
- High electrical insulation, protect sensitive electronic devices.
- Natural stickiness, easy to assemble and disassemble.

Typical Applications

- CPU / memory / high speed hard disk drive.
- Microprocessors, memory chips and graphics processors.
- New energy vehicles and peripheral / charging machines.
- Network communication equipment.
- Heating module with high heat conduction demand.

Electrically Insulating, Thermally Conductive Elastomeric Material

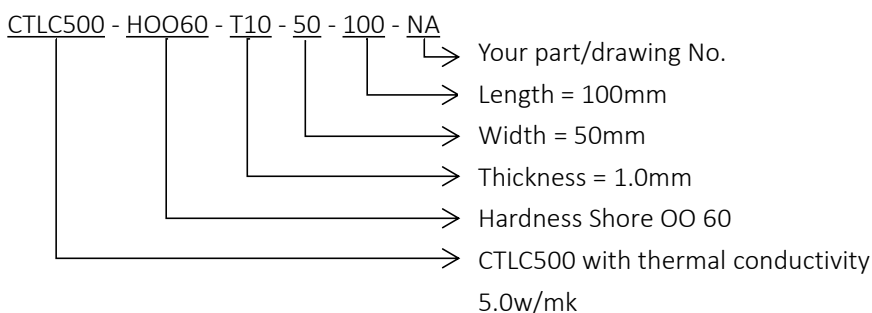
TYPICAL PROPERTIES OF SILICONE RUBBER CTLC500			
Test Item	Unit	CTL500	Test Method
Colour	-	Gray	Visually
Thickness	mm	0.5~10	ASTM D374/374M
Hardness	Shore AO	30±5	GB/T531
	Shore OO	60±10	ASTM D2240
Specific Gravity	g/cm ³	3.20±0.2	ASTM D792
Tensile Strength	MPa	0.1	ASTM D412
Elongation at Break	%	40	ASTM D412
Breakdown Voltage	KV/mm	≥10	ASTM D149
Volume Resistivity	Ω·cm	≥1×10 ¹³	ASTM D257
Temp Resistance	°C	-40~200	-
Flame	-	V-0	UL 94
Weight Loss	%	≤0.3	@150°C 240H
Permittivity	@1MHz	6.07	ASTM D150
Thermal Conductivity	W/mk	5.0±0.3	ISO 22007-2
Thermal Conductivity	W/mk	5.0±0.3	ASTM D5470
Thermal Impedance	°C·in ² /W	0.384	ASTM D5470
Thermal Impedance	°C·cm ² /W	2.480	ASTM D5470
Specific Heat Capacity	J/g/k	0.838	ASTM E1269

Configurations Available:

- Sheet form, die-cut parts
- With or without pressure sensitive adhesive

Build a Part Number

Standard Options



Note: The material can be customized. If you can't find the material that meets your requirements in our existing materials, you can consult the sales manager whether the material you need supports customization, and we will give you a reply within 24H.

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