

Thermal SIL PAD CTLCV-350S

LCV-350S High thermal conductivity SIL PAD is a kind of thin thermal conductive insulating material with excellent comprehensive properties, which is synthesized by special process with glass fiber as the base material, thermal conductive powder and high molecular polymer. This material has the advantages of high thermal conductivity, high friction resistance, high tensile strength and smooth and high adhesion surface, which can greatly reduce the interface thermal resistance under low pressure. It is widely used in the situation of high thermal conductivity and high electrical insulation. It is suitable for fixing components with low tightening pressure. It is mainly used between the heating semiconductor device and the heat dissipation substrate for heat conduction and insulation.



Product Features

- Heat conduction, high electrical insulation.
- Smooth on both sides, no stickiness, convenient for repeated assembly, reduce loss.
- The performance of puncture resistance is outstanding in the installation and application of screw and clip.
- Designed for applications that focus on electrical insulation.

Typical Applications

- Electronic control module of automobile.
- Power / motor control.
- Audio amplifier.
- High frequency communication equipment.
- Discrete devices / power semiconductors.

Electrically Insulating, Thermally Conductive Material

TYPICAL PROPERTIES OF SILICONE RUBBER CTLCV-350S

Test Item	Unit	CTLCV-350S	Test Method
Colour	-	White	Visually
Thickness	mm	0.23±0.03 0.38±0.03	ASTM D374/374M
Hardness	Shore A	90±5	ASTM D2240
Specific Gravity	g/cm ³	1.5±0.1	ASTM D792
Breakdown Voltage	KV	≥4.0	ASTM D149
Temp Resistance	°C	-40~200	-
Flame	-	V-0	UL 94
Tear Strength	N/25CM	-	ASTM D5035
Volume Resistivity	Ω·cm	≥10 ¹¹	ASTM D257
Dielectric Constant	@1MHz	-	ASTM D150
Thermal impedance	°C·in ² /W	0.28(0.23T) 0.32(0.38T)	ASTM D5470
Thermal impedance	°C·cm ² /W	1.806(0.23T) 2.064(0.38T)	ASTM D5470
Thermal Conductivity	W/mk	3.5	ISO 22007-2
Thermal Conductivity	W/mk	3.5	ASTM D5470

Configurations Available:

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

Build a Part Number

Standard Options

CTLCV-350S - T10 - 50 - 100 - NA

- Your part/drawing No.
- Length = 100mm
- Width = 50mm
- Thickness = 1.0mm
- CTLCV-350S with thermal conductivity 3.5w/mk

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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