

Thermal Silicone Rubber CTLC700

CTLC700 Ultra-high thermal pad is a high-performance thermal conductivity interface material, which is made of imported raw materials and used to fill the air gap between the heating element and the heat sink or metal base. Their flexibility and elasticity make them suitable for covering completely uneven surface. The heat is conducted from the separated device or the entire PCB to the metal casing or the diffusion plate, effectively improving the heat dissipation performance and improving the efficiency and service life of the heating electronic components.



Product Features

- Excellent thermal conductivity, 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.
- Automobile engine control module.
- Communication electronic hardware equipment.
- Military electronic equipment.

Electrically Insulating, Thermally Conductive Elastomeric Material

TYPICAL PROPERTIES OF SILICONE RUBBER CTLC700

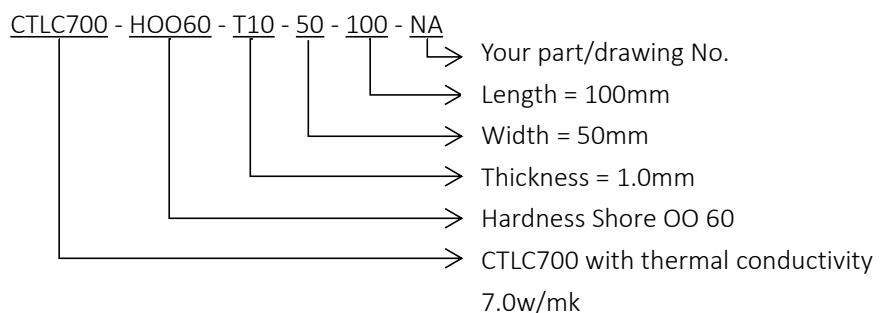
Test Item	Unit	CTLC700	Test Method
Colour	-	Gray	Visually
Thickness	mm	0.5~5.0	ASTM D374/374M
Hardness	Shore AO	30±5	GB/T531
	Shore OO	70±10	ASTM D2240
Specific Gravity	g/cm ³	3.5	ASTM D792
Tensile Strength	MPa	0.15	ASTM D412
Elongation at Break	%	24	ASTM D412
Breakdown Voltage	KV/mm	≥7	ASTM D149
Volume Resistivity	Ω·cm	1x10 ¹¹	ASTM D257
Temp Resistance	°C	-40~200	-
Flame	-	V-0	UL 94
Weight Loss	%	≤0.2	@150°C 240H
Permittivity	@1MHz	8.0	ASTM D150
Thermal Conductivity	W/mk	7.0	ISO 22007-2
Thermal Conductivity	W/mk	7.0	ASTM D5470
Thermal Impedance	°C·in ² /W	0.204	ASTM D5470
Thermal Impedance	°C·cm ² /W	1.315	ASTM D5470
Specific Heat Capacity	J/g/k	0.903	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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