

# Thermal Silicone Rubber CTLC120

CTLC120 thermal pad is a general-purpose and economical thermal conductive gap filler, cost-effective, soft and self-adhesive, easy to assemble. It shows good thermal conductivity and electrical insulation performance under low compression force. It is placed between the heating device and the gap between the heat sink or the machine shell, and the air is squeezed out to achieve full contact, forming a continuous heat conduction channel. Using the heat sink or the machine shell As a heat dissipation device, the heat dissipation area can be effectively increased, thereby effectively improving the heat dissipation effect.



## Product Features

- Low cost, high efficiency and high cost performance.
- Thermal grease to replace volatile pollution.
- Natural stickiness, easy assembly, repeatable disassembly.
- Wide thickness range, can fill any uneven size gap.
- High electrical insulation.

## Typical Applications

- Computer/communication equipment.
- Laptop / tablet / PC server.
- New energy power battery / vehicle equipment.
- Switching power supply / UPS.
- Video / security equipment.
- Any heating element and radiator.

Electrically Insulating, Thermally Conductive Elastomeric Material

### TYPICAL PROPERTIES OF SILICONE RUBBER CTLC120

Test Item	Unit	CTLC120	Test Method
Colour	-	Off-White	Visually
Thickness	mm	0.3~15	ASTM D374/374M
Hardness	Shore AO	30±5	GB/T531
	Shore OO	60±10	ASTM D2240
Specific Gravity	g/cm <sup>3</sup>	2.07±0.2	ASTM D792
Tensile Strength	MPa	0.22	ASTM D412
Elongation at Break	%	220	ASTM D412
Breakdown Voltage	KV/mm	≥10	ASTM D149
Volume Resistivity	Ω·cm	≥1×10 <sup>13</sup>	ASTM D257
Temp Resistance	°C	-40~150	-
Flame	-	V-0	UL 94
Weight Loss	%	≤0.5	@150°C 240H
Permittivity	@1MHz	4.09	ASTM D150
Thermal Conductivity	W/mk	1.2±0.12	ISO 22007-2
Thermal Conductivity	W/mk	1.2±0.12	ASTM D5470
Thermal Impedance	°C·in <sup>2</sup> /W	1.441	ASTM D5470
Thermal Impedance	°C·cm <sup>2</sup> /W	9.297	ASTM D5470
Specific Heat Capacity	J/g/k	1.039	ASTM E1269

## Configurations Available:

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

## Build a Part Number

CTLC120 - H0060 - T10 - 50 - 100 - NA

- Your part/drawing No.
- Length = 100mm
- Width = 50mm
- Thickness = 1.0mm
- Hardness Shore OO 60
- LC120 with thermal conductivity 1.2w/mk

## 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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