

Liquid Gap Filler Thermal Gel CTLCF500

CTLCF500 Two component thermal gel is a preformed thermal gap filling material, which can be solidified at room temperature or high temperature to form a flexible and thermally conductive elastomer, which is formed with the shape of the structure. After curing, it is equivalent to the thermal conductive silicone gasket. It mainly meets the requirements of low pressure and high compression modulus. It can realize automatic dispensing production with high efficiency. It has good contact with electronic products, increases effective contact area and reduces contact thermal resistance. It can automatically fill the gap and compress infinitely. It is suitable for heat dissipation modules or electronic components with large thickness variation.



Electrically Insulating, Thermally Conductive Elastomeric Material

TYPICAL PROPERTIES OF THERMAL GEL CTLCF500

Test Item	Unit	CTLCF500	Test Method
Colour A/B	-	White+Gray	Visually
Extrusion Rate	g/min	20	90psi@ ϕ 1.85mm
Mixing Ratio	-	1:1	ASTM D149
Hardness	Shore AO	20 \pm 5	GB/T531
	Shore OO	50 \pm 10	ASTM D2240
Specific Gravity	g/cm ³	3.20	ASTM D792
Breakdown Voltage	KV/mm	\geq 7	ASTM D149
Volume Resistivity	Ω ·cm	1 \times 10 ¹¹	ASTM D257
Weight Loss	%	\leq 0.3	@150 $^{\circ}$ C 240H
Continuous Use Temp	$^{\circ}$ C	-40~150	-
Flame Rating	-	V-0	UL 94
Surface Dry Time	Min	45	ASTM C679
Thermal Conductivity	W/mk	5.0 \pm 0.3	ISO 22007
Thermal Conductivity	W/mk	5.0 \pm 0.3	ASTM D5470
Thermal impedance	$^{\circ}$ C·in ² /W	0.332	ASTM D5470
Thermal impedance	$^{\circ}$ C·cm ² /W	2.141	ASTM D5470
Specific Heat Capacity	J/g/k	0.845	ASTM E1269

Product Features

- High thermal conductivity, low thermal resistance, good wettability.
- Lower assembly stress, easy to operate.
- High reliability, after curing, it is equivalent to thermal pad, no volatilization.
- Automatic dispensing adjustment of any thickness.
- After curing, the modulus is low, which greatly reduces the stress caused by thermal expansion and the damage caused by vibration.

Typical Applications

- Network terminal /5G mobile phone communication.
- New energy battery.
- Automotive electronic application equipment.
- Electronic medical / power equipment.
- Between fragile components and housing.

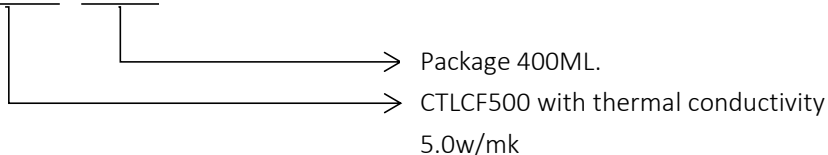
Configurations Available:

- 50ml, 400ml, barrel

Build a Part Number

Standard Options

CTLCF500 - 400ML



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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