

# Thermal Grease

## LYT-Grease500

LYT-Grease500 thermal grease has excellent thermal conductivity, good lubricity and electrical insulation; At the same time, it has good high and low temperature resistance; It features low consistency and good operation performance. The low thermal resistance makes it suitable for high heat generation and close fit scenarios, with the lowest thickness of thermal conductive products, which can quickly transfer the heat of the equipment to achieve good temperature control, thereby extending the service life of electronic components and improving their reliability. It can be placed on the heating device by dispensing, printing, etc., and is suitable for thermally conductive functional composites used with smaller or zero gaps.

### TYPICAL APPLICATIONS

- Thermal conduction for PC, LED, LCD-TV, DVD, Power supply, Communication device
- Communication equipment, network terminals, consumer electronics, power devices, storage devices, LED lamps
- Suitable for applications with minimum compression thickness, constant pressure for optimal heat dissipation
- Thermal conduction and heat dissipation of electronic components such as power amplifiers, transistors, electron tubes, and CPUs

### FEATURES AND ADVANTAGES

- Good thermal conductivity, high stability and excellent wettability
- It can form a very thin interface layer on rough surfaces, low thermal resistance, and easy to handle
- Good thixotropy, economical and practical, simple coating or potting process
- Excellent insulation properties, non-toxic, non-corrosive to the substrate and stable chemical properties

Long Young Electronic Co.

Tel: 86.512.57668990

Fax: 86.512.57669500



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## TECHNICAL DATA

PROPERTIES	DATA	UNIT	TEST METHOD
Color	Dark Grey	/	Visual
Viscosity	100 to 120 (*10 <sup>3</sup> )	mPa · s	ASTM D2196
Density	2.6	g/cc	ASTM D792
Operating Temperature	-40~150	°C	Internal Lab
Outgassing	< 0.5%		Heat aging chamber
Oil Permeability	< 0.03%		Heat aging chamber

### THERMAL PROPERTIES

Thermal conductivity	5.0	W/m · k	ASTM D 5470
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### THERMAL RESISTANCE VS PRESSURE

Pressure(psi)	10	20	30	40
Thermal resistance(°C · in <sup>2</sup> /W)	0.049	0.039	0.033	0.028

## HOW TO ORDER

### AVAILABILITY

- Canned 1KG, 2KG or 5kg
- thermal conductivity from 1 to 6 w/m · K commonly, other special requirements products are available upon customer requirements.

### COLOR

- Common color formular: white and grey
- other color can be customized

## STORAGE AND SHELF LIFE

- Shelf life: 12 Months from shipping date
- Storage conditions: stored at room temperature, it is recommended to store in a cool and dry place indoors

## TRANSPORT

These products are non-dangerous goods and can be transported as general chemicals to avoid excessive temperature differences that will adversely affect the product.

## HANDLE

Customers can choose the right product according to the actual application situation, clean the surface to be coated, remove oil and impurities, and evenly coat the surface of the silicone grease. It can be coated by dot coating, brush coating, screen printing, etc. If there is sedimentation, it can still be used after stirred well.

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