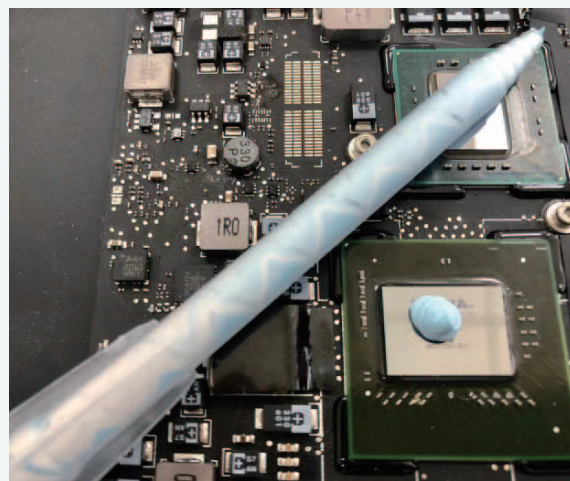


# Two-Part room temperature curing adhesive

## LYT-CP40

LYT-CP40 is a two-part silicon-based liquid thermal conductive gap filler with a thermal conductivity of 4.0W/m-K. The product has low viscosity and good thixotropy after mixing in a 1:1 ratio, is easy to apply and operate through dispensing, has excellent collapse resistance and high shear thinning characteristics, and the hybrid system can cure quickly at room temperature or under heat.

Thermally conductive adhesive products can produce more than 70% compression set when the external pressure is low, so it can be easily filled into the surface and surrounding gaps of the heating device to form a thermal conductive film bridge with the heat sink. After curing, the product forms a 3D elastomer structure with extremely low compressive and residual stresses to protect sensitive components from damage.



### FEATURES AND BENEFITS

- Thermal conductivity :4.0 W/m -K
- Cure at room temperature or accelerated at high temperatures
- Excellent anti-slump properties
- Optimized shear thinning characteristics
- Excellent interfacial wettability
- Extremely low residual stress after curing to protect sensitive devices

### APPLICATION

- Electric vehicle power battery module
- Automotive Electronics
- LED lighting
- Hardware heat dissipation of communication base stations
- Large storage data center
- Smartphone Modules and Consumer Electronics

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## TECHNICAL DATA

PROPERTIES	DATA	UNIT	TEST METHOD
Composition	Ceramic powder filled curable gel	/	
Component style	Two-Part	/	
Color	A: White ; B: blue	/	Visual
Viscosity	350,000	cps	ASTM D2196
The mixing ratio	1:1	/	
Operation time	2H (25°C)	Hour	Internal Lab
Curing Time	18H (25°C) 0.5H (120°C)	Hour	Internal Lab

### PRODUCT CHARACTERISTICS AFTER CURING

Density	3.1	g/cm <sup>3</sup>	ASTM D792
Hardness	50	Shore 00	ASTM D2240
Operating temperature	-40~150	°C	Internal Lab
Minimum interface thickness	0.1	mm	Internal Lab

### THERMAL PROPERTIES

Thermal conductivity	4.0	W/M·k	ASTM D 5470
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### ELETRICAL PROPERTIES

Volume resistivity	$\geq 1.0 \times 10^{13}$	Ohm-cm	ASTM D 257
Dielectric strength	$\geq 10$	KV/mm	ASTM D 149

### FLAME RETARDANT PROPERTIES

Flame retardant rating	V-0	/	UL94
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#### ATTENTION

- Do not eat
- Keep out of the reach of children
- Keep the product away from fire
- Please confirm the correctness before using

#### HOW TO ORDER

- 25 cc\*2 200cc \*2 or 600cc \*2 Syringe packaging
- 5 gallon tank pack
- Fast or slow room temperature cure products can be ordered

#### STORAGE AND SHELF LIFE

- The product needs to be sealed and stored in an environment of 0-35°C and no more than 65% relative humidity.
- Storage Validity: 6 Months from shipping date.

Resived date:2023-11-06

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