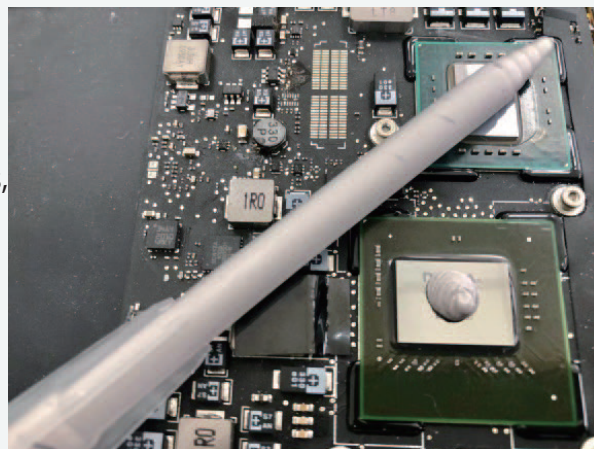


# Two-Part room temperature curing adhesive

## LYT-CP100

LYT-CP100 is a two-part silicon-based liquid thermal conductive gap filler with a thermal conductivity of 10.0W/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 :10.0 W/m -K
- Cure at room temperature or accelerated at high temperatures
- Excellent anti-slump properties
- High thixotropy and 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: Dark Gray ; B: Light Gray	/	Visual
CURING			
The mixing ratio	1:1	/	
Operation time	1H (25°C)	Hour	Internal Lab
Curing Time	48H (25°C) 0.5H (120°C)	Hour	Internal Lab
PRODUCT CHARACTERISTICS AFTER CURING			
Density	3.25	g/cm <sup>3</sup>	ASTM D792
Hardness	45	Shore 00	ASTM D2240
Operating temperature	-40~150	°C	Internal Lab
Minimum interface thickness	0.2	mm	Internal Lab
THERMAL PROPERTIES			
Thermal conductivity	10.0	W/M·k	ASTM D 5470
ELETRICAL PROPERTIES			
Volume resistivity	$\geq 1.0 \times 10^{13}$	Ohm-cm	ASTM D 257
Dielectric strength	$\geq 6$	KV/mm	ASTM D 149
FLAME RETARDANT PROPERTIES			
Flame retardant rating	V-0	/	UL94

### 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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