

# Two-Part room temperature curing adhesive

## LYT-CP20LD

LYT-CP20LD is a two-part silicon-based liquid thermal conductive gap filler with a thermal conductivity of 2.0W/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.

LYT-CP20LD Two-part room temperature curing 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 :2.0 W/m -K
- low density: 2.0 g/cc
- Easy to automate dispensing and good interface wettability
- Excellent anti-slump properties
- Optimized shear thinning characteristics
- 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: Yellow ; B: White	/	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	2.0	g/cm <sup>3</sup>	ASTM D792
Hardness	55	Shore 00	ASTM D2240
Operating temperature	-40~150	°C	Internal Lab
Minimum interface thickness	0.2	mm	Internal Lab

### THERMAL PROPERTIES

Thermal conductivity	2.0	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.

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