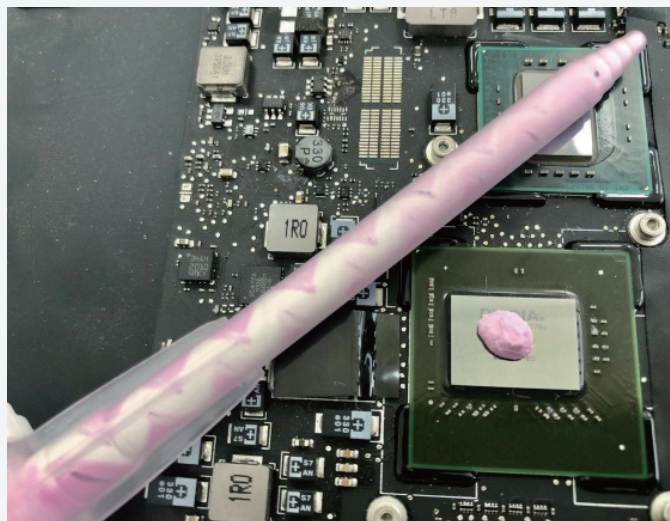


Two-Part room temperature curing adhesive

LYT-CP50

LYT-CP50 is a two-component silicon-based liquid thermal conductive gap filler with a thermal conductivity of 5.0W/m-K. The product has low viscosity and good thixotropy when mixed in a 1:1 ratio, is easy to apply and handle through dispensing, has excellent slump resistance and high shear thinning characteristics, and the mixed system can be cured at room temperature or heated Fast curing in the state.

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



FEATURES AND BENEFITS

- Thermal conductivity :5.0 W/m -K
- Optimized shear thinning properties
- Excellent slump resistance
- 100% solid content, no volatile solvents
- Easy to dispense at low pressure and good interfacial wetting properties
- Very low residual stress after curing to protect sensitive devices

APPLICATION

- Electric vehicle power battery module
- Automotive Electronics
- LED lighting
- Communication base station hardware cooling
- Large storage data center
- Smartphone Modules and Consumer Electronics

Long Young Electronic Co.

Tel: 86.512.57668990

Fax: 86.512.57669500



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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: Purple	/	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	3.25	g/cm ³	ASTM D792
Hardness	55	Shore 00	ASTM D2240
Operating temperature	-40~150	°C	Internal Lab
Minimum interface thickness	0.15	mm	Internal Lab

THERMAL PROPERTIES

Thermal conductivity	5.0	W/M·k	ASTM D 5470
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ELETRICAL PROPERTIES

Volume resistivity	1.0*10 ¹³	Ohm-cm	ASTM D 257
Dielectric strength	≥ 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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