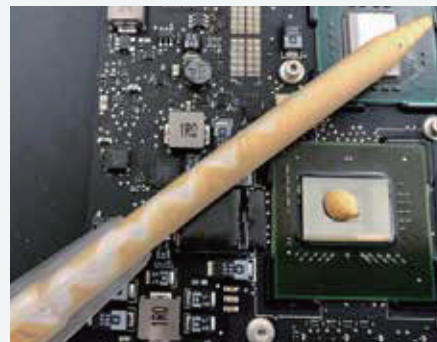


Two-part room temperature curing adhesive

LYT-CP20

LYT-CP20 is a two-component silicon liquid thermal conductive gap filler with a thermal conductivity of $2.0\text{W/m}\cdot\text{K}$. The product has low viscosity and good thixotropy when mixed in a 1:1 ratio, is easy to dispense and operate, has excellent slump resistance and high shear thinning characteristics, and the mixing system can cure quickly at room temperature or in a heated state.

Thermal adhesive products can produce compression set of more than 70% when the external pressure is small, so it can be easily filled into the surface of the heating device and the surrounding gaps to form a thermal 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 ADVANTAGES

- Thermal conductivity: $2.0\text{W/m}\cdot\text{K}$
- Low bond line thickness, low thermal resistance
- Curing at room temperature or accelerated at high temperature
- Excellent collapse resistance
- Optimized shear thinning characteristics
- Good interface wetting characteristics
- Very low residual stress after curing to protect sensitive devices

TYPICAL APPLICATIONS

- Electric vehicle power battery module
- Automotive electronics
- LED lighting
- Communication base station hardware heat dissipation
- Large storage data centers
- Smartphone modules and consumer electronics

Long Young Electronic Co.

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TECHNICAL DATA

PROPERTIES		DATA	TEST METHOD
Before curing	Composition	Ceramic powder filled with curable silicone gel	/
	Components	Two-Part	/
	Color	Part A: Yellow Part B: White	Visual
	Viscosity, mPa · s	300,000	ASTM D2196
curing	Mixing Ratio	1:1	/
	Tack Free Time, Hours	2H at 25°C	Internal testing
	Curing Time, Hours	18H at 25°C 0.5H at 120°C	Internal testing
Post-curing	Density, g/cc	2.8	ASTM D792
	Hardness, shore 00	55	ASTM D 2240
	Operating Temp. Range °C	-40 to 160	Internal testing
	Minimum BLT, mm	0.06	Internal testing
THERMAL PROPERTIES			
Thermal Conductivity, W/M·k		2.0	ASTM D 5470
ELECTRICAL PERFORMANCE			
Volume Resistivity, $\Omega \cdot \text{cm}$		$> 1.0 \times 10^{13}$	ASTM D257
Dielectric Strength, kV/mm		≥ 10	ASTM D149
FLAME RETARDANT PROPERTIES			
UL Flame Classification		V-0	UL94

Note: The data in this material are typical test values, the results are for reference only, and cannot be used as product performance indicators

ATTENTION

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

STORAGE AND SHELF LIFE

- The product needs to be sealed and stored in Temperature range: 0~35 and Relative humidity does not exceed 65%
- Storage Validity: 6 Months from packing date.

HOW TO ORDER

- 25cc*2, 200cc*2, or 600cc*2 Syringe packaging
- 5 gallon bucket pack
- Fast room temperature curing or slow room temperature curing products can be ordered

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