

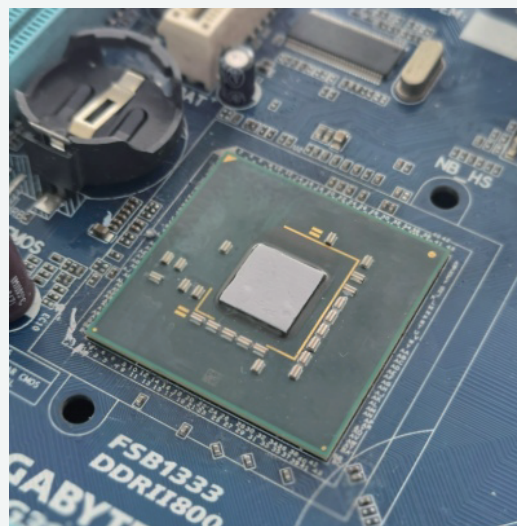
Phase Change Material

LYT-PCM800/LYT-PCM800SP

Phase change materials are used between high power devices and heat sinks to provide extremely low thermal resistance to improve device reliability. The phase change material can well fill the gap between the interfaces, form better contact between the two interfaces, and improve the overall heat dissipation efficiency.

Phase Change Material LYT-PCM800 is a high performance thermally conductive phase change material with a thermal conductivity of 8.0 W/m-K. Its softness at room temperature and suitable surface adhesion make this product very applicable and rework.

LYT-PCM800 is specially developed to meet the demanding requirements for heat dissipation in today's high performance electronic devices, and has very good thermal resistance performance and excellent reliability. The material available in rolls, sheet or die-cut shape. Furthermore, LYE also offers a printable version of LYT-PCM800SP to meet the needs of different customer applications.



FEATURES AND BENEFITS

- Low thermal resistance
- Non-silicon base material, no silicon pollution
- Naturally sticky, can be directly pasted on the surface of the radiator, No adhesive backing required.
- High thixotropy, non-extruding
- Easy to rework
- Soft at room temperature, low assembly stress
- High reliability

APPLICATION

- Laptop computers
- Desktop computers
- Image processor
- Memory device
- Consumer electronics
- TVs, game consoles, etc.
- Vehicle electronics

Long Young Electronic, Co.

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Phase Change Material

LYT-PCM800/LYT-PCM800SP

TECHNICAL DATA

PROPERTIES	LYT-PCM800	LYT-PCM800SP	REFERENCE
Structure	non-silicon	non-silicon	/
Color	Grey	Grey	Visual
Phase change temperature[°C]	45	45	ASTM D3418
Density[g/cc]	2.5	2.5[Solvent-contained]	ASTM D792
Viscosity [cps]	N/A	120,000	ASTM D 2196
Operating temperature[°C]	-40~125	-40~125	Reliability test
Thermal conductivity[W/M·k]	8.0	8.0	ASTM D 5470
Thermal resistance [°C - in ² /W]@10psi	0.012	0.012	ASTM D 5470
Thermal resistance [°C - in ² /W]@50psi	0.007	0.007	ASTM D 5470
Volume resistivity[Ohm-cm]	>4×10 ¹³	>4×10 ¹³	ASTM D257
Dielectric constant [@1kHz/1MHz]	> 10	> 10	ASTM D150
Flame retardant rating	V-0	V-0	UL94

Note: The data indicated above are all typical test values, the results are for reference only, and can not be used as the product performance

ATTENTION

- Do not eat
- Keep out of the reach of children
- Keep the product away from fire
- Please confirm the correctness before use
- Please make sure the product surface is clean

STORAGE AND SHELF LIFE

- The product needs to be sealed and stored in Temperature range: 15~35 and Relative humidity does not exceed 65%
- Storage Validity: 12 Months from the date of packing.

HOW TO ORDER

LYT-PCM800 Products are shipped in sheet or roll form, and can also be die-cut in special shapes according to customer needs.
LYT-PCM800SP Products are shipped in 300cc Aluminium tubes , 1Kg Canned pack.

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