

Thermal Grease

LYT-Grease850

LYT-Grease800 Thermal greases offer a range of performance covering the simplest to most demanding thermal requirements. These materials are screened, stenciled or dispensed and require virtually no compressive force to conform under typical assembly pressures. They are excellent for conforming to surface micro-voids created by machining/casting to reduce thermal impedance. Thermal greases have excellent surface wetting characteristics and flow easily to fill voids at the interfaces resulting in low thermal impedance even at low pressure.

TYPICAL APPLICATIONS

- Memory modules
- Power supplier and UPS
- Mobile, desktop, server CPUs
- Power semiconductors
- Power conversion equipment
- Engine and transmission control modules

FEATURES AND ADVANTAGES

- Low thermal impedance, Great surface wetting
- Ideal for rework and field repair situations
- Fills interface variable tolerances in electronics assemblies and heat sink applications.
- Supports high power applications requiring material with minimum bond line thickness
- Silicone based materials conduct heat between a hot component and a heat sink or enclosure.
- Thermally stable and require virtually no compressive force to deform under typical assembly pressures.

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TECHNICAL DATA

PROPERTIES	DATA	UNIT	TEST METHOD
Color	Dark Grey	/	Visual
Thermal conductivity	8.5	W/M·k	ASTM D 5470
Density	2.7 ± 0.2	g/cm ³	ASTM D792
Evaporation	< 0.5%	(24H@150℃) %	
Silicone oil permeability	< 0.03%	(24H@150℃) %	
Viscosity	100~120 (*10 ³)	mPa·s	ASTM D2196
Continuous Use Temp.	-40~150	℃	

Relationship between pressure and thermal resistance

Pressure(psi)	10	20	30	40
Thermal resistance(℃·in ² /W)	0.035	0.031	0.026	0.02

Configurations Available

- Provide filling 1kg/2kg/5kg packaging. Packaging specifications can be customized according to customer's requirements.
- Conventional colors: gray and white, etc. The colors can be customized according to customers's requirements

Storage & Shelf Life

- Materials may settle overtime in storage. Best practice is to remix the material prior to use.
- Materials suggest be stored at 50°F to 90°F (10°C to 32°C) at 50% relative humidity.
- Shelf life is 12 months

Transportation

Such product are non-dangerous goods and can be transported as normal chemicals.

Operate

Customers can choose the right product according to the actual application. Clean the surface to be coated, remove oil stains and impurities, and coat the surface evenly with silicone grease. It can be coated by dot coating, brush coating, screen printing, etc. If there is sedimentation, it can be stirred evenly and can still be used.

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