

D2000

Two-Part Curable Thermal Grease

LiPOLY D2000 is a two-part curable thermal grease. It can be cured quickly at room temperature and high temperature without pump-out effect. It is a highly reliable material. With a thermal conductivity of 2.0 W/m*K, has low thermal resistance. It is ideally suited for dispensing using the dispensing robot or by syringe.

FEATURES

- / Thermal conductivity:2.0 W/m*K
- / Cured and Re-workable thermal Grease.
- / Without Pump-out and Dry out concern.
- / Great reliability
- / Low thermal resistance and thinner Bond Line Thickness.

TYPICAL APPLICATION

- / Between CPU and heat sink
- / Between a component and heat sink
- / Power supplies
- / High speed mass storage drives
- / Telecommunication hardware
- / Mobile devices
- / 5G base station & infrastructure
- / EV electric vehicle

CONFIGURATIONS

- / Cartridges: 50ml, 400ml
- / Other special and custom sizes are available upon request

DISPENSING INSTRUCTIONS

Use the disposable plastic static mixing nozzles to mix parts A and B together to the desired ratio. Liquid gap fillers can be dispensed using an automatic dispensing machine or a manual dispensing tool that can be provided by LiPOLY upon request/purchase. The disposable plastic static mixing nozzles cannot be re-used.

STORAGE

Two-part liquid gap fillers should be stored in climate-controlled environments at or below 30°C. Keep liquid gap fillers away from direct sunlight and away from high-temperature environments.

PRESERVATION

It can be preserved for 24 months under the condition of unopened and under room temperature 30°C. (Note:The product may experience oil-powder separation after being stored for an extended period, which is a natural sedimentation phenomenon caused by the density difference between silicone oil and powder. This does not affect its functionality and can be used as normal. It is recommended to stir the product evenly before use.)

PRECAUTIONS

The two-part liquid gap filler may not cure properly if it comes into contact with certain substances, including amine, sulfur, organophosphorus compounds, and organotin compounds. Please avoid the following substances when handling: (N, P, S, Sn, Pb, Hg, Sb, Bi, As) Ensure a clean mixing container is used (e.g.: paper cup or plastic cup) before injecting the A and B parts into the mixing container. The plasticizer, wax from the cups, varnish or the epoxy from the oven may contaminate the A and B parts. You are reminded to pre-test the gap filler before using it.





PLEASE NOTE

It's recommended that the diameter of mixing tube outlet should be 3mm at least, which can solve the possible problem of poor fluidity caused by ambient temperature.

TYPICAL PROPERTIES

PROPERTY	D2000	TEST METHOD	UNIT
Color	White (A part) Gray (B part)	Visual	-
Solid content	100% (Two-part : 100:100)	-	-
Viscosity A	95	ISO 3219	Pa.s
Viscosity B	95	ISO 3219	Pa.s
Density	2.8	ASTM D792	g/cm³
Shelf life	24 months	-	-
ROHS & REACH	Compliant	-	-
SOLID(AFTER CURE)			
Thermal conductivity	2.0	ASTM D5470	W/m*K
Thermal impedance@2mils BLT	0.042	ASTM D5470	°C-in²/ W
Bond line thickness	50	-	μm
Hardness	75	ASTM D2240	Shore OO
Heat capacity	1.0	ASTM E1269	J/g*K
Volume resistivity	>1012	ASTM D257	Ohm-m
Dielectric breakdown	14	ASTM D149	KV/mm
Working temp (long term)	-60 ~ 200	-	°C
Working temp (short term)	288	-	°C
Operating ambient temp	20 ~ 30	-	°C
CURE SCHEDULE			
Pot life @ 25°C	10~15	By LiPOLY	min
Surface dry @ 25°C	25~30	By LiPOLY	min
Cure @ 25°C	35~40	By LiPOLY	min
Cure @ 100°C	80	By LiPOLY	sec
Cure @ 120°C	30	By LiPOLY	sec
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Note: All specifications provided by LiPOLY are subject to change without notice. The test methods used by LiPOLY are based on the TIM Tester method and ASTM D5470 test method. These test methods are used as the definition standards for LiPOLY. Property values provided in this document are not for product specifications or guaranteed. This document does not guarantee the performance and quality required for the purchaser's specific purpose. The purchaser needs to evaluate and verify the safety before using the material. We strongly recommend the purchaser pre-test the product and verify the performance of the product under the purchaser's specific conditions. Liability, and use of the product are the responsibility of the enduser is pre-test these no warranty as to the suitability, merchantability, or nor-infringement of any LiPOLY mater are specific and to be liable for incidental or consequential damages of any kind. All LiPOLY products are sold in accordance with the LiPOLY Terms and Conditions in effect at the time of purchase and a copy of which will be furnished upon request. All rights reserved, including LiPOLY trademarks or registered trademarks of LiPOLY or its affiliates. Statements concerning possible or suggested uses made herein shall not be relied upon or be constructed as a guaranty of patent infringement. Copyright LiPOLY.