

PK700DM

Two-Part Thermal Conductive Gap Filler

LiPOLY PK700DM is a two-part liquid gap filler, fast cured at room temperature or elevated temperature. With a thermal conductivity of 7.0 W/m*K, PK700DM provides high thermal conductivity and low thermal impedance. It is ideally suited for dispensing using the dispensing robot or by syringe.

■ FEATURES

- / Thermal conductivity: 7.0 W/m*K
- / Fast curing in normal atmospheric temperature
- / Great reliability
- / Great sealing in low pressure

■ TYPICAL APPLICATIONS

- / Between CPU and heat sink
- / Between a component and heat sink
- / Power supplies
- / High speed mass storage drives
- / Telecommunication hardware
- / Electric vehicle& Automotive battery

■ 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

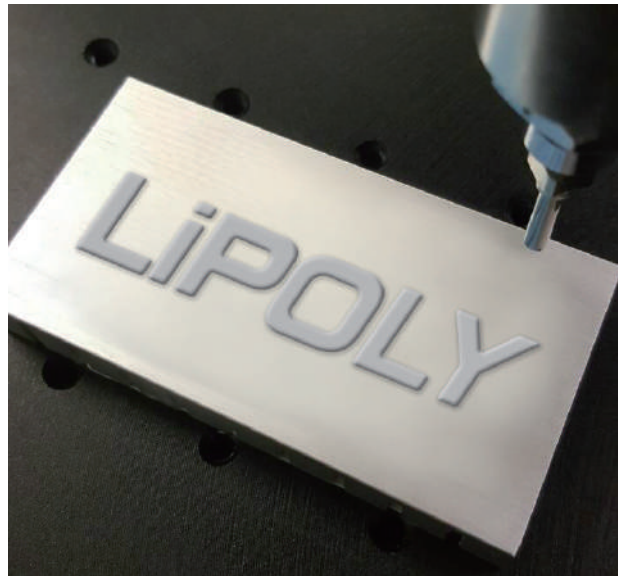
Two-part liquid gap fillers should be stored in climate-controlled environments at or below 25°C. Keep liquid gap fillers away from direct sunlight and away from high-temperature environments.

■ PRESERVATION

It can be preserved for 24 months under the condition of unopened and under room temperature 25°C.

■ 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	PK700DM	TEST METHOD	UNIT
Color	Gray (A part) White (B part)	Visual	-
Solid content	100% (Two-part : 100:100)	-	-
Viscosity A	315	ISO 3219	Pa.s
Viscosity B	285	ISO 3219	Pa.s
Density	2.8	ASTM D792	g/cm ³
Shelf life	24 months	-	-
ROHS & REACH	Compliant	-	-
SOLID(AFTER CURE)			
Thermal conductivity	7.0	ASTM D5470	W/m*K
Thermal impedance@10mils BLT	0.058	ASTM D5470	°C-in ² / W
Thermal impedance@20mils BLT	0.115	ASTM D5470	°C-in ² / W
Thermal impedance@30mils BLT	0.170	ASTM D5470	°C-in ² / W
Hardness	60	ASTM D2240	Shore OO
Volume resistivity	>10 ¹²	ASTM D257	Ohm-m
Working temp (long term)	-60 ~ 200	-	°C
Operating ambient temp	20 ~ 30	-	°C
CURE SCHEDULE			
Pot life @ 25°C	20~30	By LiPOLY	min
Surface dry @ 25°C	30~40	By LiPOLY	min
Cure @ 25°C	40~50	By LiPOLY	min
Cure @ 100°C	40	By LiPOLY	sec
Cure @ 120°C	10	By LiPOLY	sec