

TIM14

Thermal Conductive Die Attach Adhesive

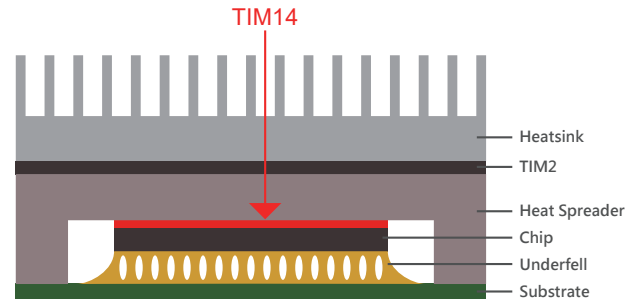
LiPOLY's TIM14 is a one-part compound silicone base thermal conductive adhesive gel. High deformation can fill small air gaps perfectly to remove tolerance. It's ideally suited for dispensing using the dispensing robot.

■ FEATURES

- / Excellent thermal conductivity 4.0 W/m*K
- / One part material - no mixing of separate components
- / Dispensable for serial manufacture
- / Adhesive for IC packaging design

■ TYPICAL APPLICATION

- / Designed to provide efficient thermal transfer for the cooling of chip packaging as TIM-1.



■ PRESERVATION

- / It can be preserved for 12 months under the condition of unopened and under -15°C.

■ TYPICAL PROPERTIES

PROPERTY	TIM14	TEST METHOD	UNIT
Color	Gray	Visual	-
Resin Base	Silicone	-	-
Form	Grease	Visual	-
Viscosity	610	ISO 3219	Pa.s
Density	3.1	ASTM D792	g/cm ³
Application temperature	-50~180	-	°C
Working Time	24 @ RT	By LiPOLY	hrs
Cure Conditions	125°C / 90 mins	By LiPOLY	-
Storage Conditions	-15°C to -35°C	-	-
Volatile Content	< 0.4	150°C x 24h	%
BLT	27	-	µm
Elongation	110	ASTM D412	%
Adhesive strength	3.5	-	kgf/cm ²
ELECTRICAL			
Dielectric breakdown	25	ASTM D149	KV/mm
Volume resistivity	>10 ¹³	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	4.0	ASTM D5470	W/m*K

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 end user. LiPOLY makes no warranty as to the suitability, merchantability, or non-infringement of any LiPOLY material or product for any specific or general uses. LiPOLY shall not 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 2022 LiPOLY.