

TPS586/TPS5868

Two-Part Thermal Conductive Sealing Glue

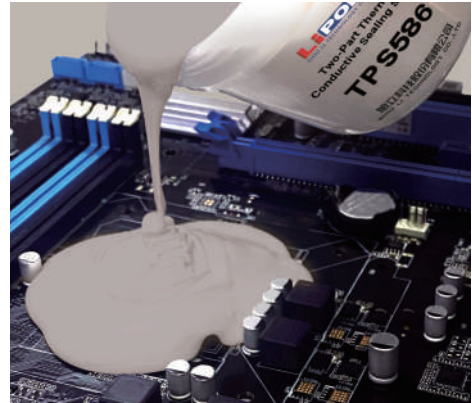
LiPOLY TPS586/5868 is a two-part sealing gap filler, provides low viscosity and high fluidity. The high deformation material, which can filling the gap closely, cover the tolerance, and has outstanding conductivity, makes is suitable for filling the peculiar gap.

■ FEATURES

- / Thermal conductivity: 1.5/3.0 W/m*K
- / Two-parts package and easy to use
- / Waterproof and air-tight
- / Thermally conductive vibration dampening

■ TYPICAL APPLICATION

- / Automotive electronics / Telecommunications
- / Computer and peripherals / 5G base station & infrastructure
- / Between any heat-generating component and a heat sink
- / EV electric vehicle



■ PRESERVATION

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

■ PRECAUTIONS

- / TPS586/TPS5868 If the interface has organic compounds such as Nitrogen, Phosphorous, Sulfur etc., and heavy metals ionic compound such as Tin, Lead, Mercury, Antimony, Bismuth, Arsenic etc., and Organometallic-salts etc., which will cause the gel incomplete curing even will be non-curved.

■ TYPICAL PROPERTIES

PROPERTY	TPS586	TPS5868	TEST METHOD	UNIT
Color	White (A part) Gray (B part)	White (A part) Gray (B part)	Visual	-
Resin base	Silicone	Silicone	-	-
A:B	100:100	100:100	-	-
Viscosity	5.0	8.0	ISO 3219	Pa.s
Density	2.1	2.8	ASTM D792	g/cm ³
Application temperature	-60~180	-60~180	-	°C
Pot life	25°C / 1.5 hr	25°C / 1.0 hr	By LiPOLY	-
Surface dry	25°C / 2.0 hr	25°C / 1.5 hr	By LiPOLY	-
Curing condition 1	25°C / 2.5 hr	25°C / 2.0 hr	By LiPOLY	-
Curing condition 2	70°C / 25 min	70°C / 20 min	By LiPOLY	-
Curing condition 3	120°C / 1 min	120°C / 1 min	By LiPOLY	-
Hardness	6	5	ASTM D2240	Shore A
Shelf life	24 months	24 months	-	-
ROHS & REACH	Compliant	Compliant	-	-
ELECTRICAL				
Dielectric breakdown	14	14	ASTM D149	KV/mm
Volume resistivity	>10 ¹²	>10 ¹²	ASTM D257	Ohm-m
THERMAL				
Thermal conductivity	1.5	3.0	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 2023 LiPOLY.