

# TPS586/TPS5868

## Two-Part Thermal Conductive Sealing Glue

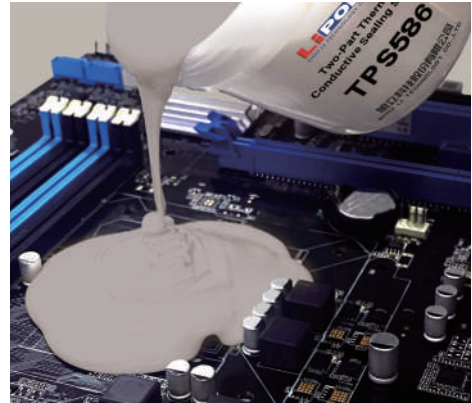
LiPOLY TPS586/5868 is a two-part sealing gap filler, provides low viscosity and high fluidity. The high deformation material, which can filling the gap closely, cover the tolerance, and has outstanding conductivity, makes is suitable for filling the peculiar gap.

### ■ 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	5.7	8.0	ISO 3219	Pa.s
Density	2.3	2.8	ASTM D792	g/cm <sup>3</sup>
Application temperature	-60~180	-60~180	-	°C
Pot life	25°C / 1.0 hr	25°C / 1.0 hr	By LiPOLY	-
Surface dry	25°C / 1.5 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 / 15 min	70°C / 20 min	By LiPOLY	-
Curing condition 3	120°C / 1 min	120°C / 1 min	By LiPOLY	-
Hardness	10	5	ASTM D2240	Shore A
Shelf life	24 months	24 months	-	-
ROHS & REACH	Compliant	Compliant	-	-
<b>ELECTRICAL</b>				
Dielectric breakdown	14	14	ASTM D149	KV/mm
Volume resistivity	>10 <sup>12</sup>	>10 <sup>12</sup>	ASTM D257	Ohm-m
<b>THERMAL</b>				
Thermal conductivity	1.5	3.0	ASTM D5470	W/m*K

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