

# TPS589

## Two-Part Thermal Conductive Sealing Glue

LiPOLY TPS589 is a two-part sealing gap filler, provides low viscosity and high fluidity. The high deformation material, which can be filling the gap closely, cover the tolerance, and has outstanding conductivity, makes is suitable for filling the peculiar gap.

### ■ FEATURES

- / Thermal conductivity: 0.8 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
- / Between any heat-generating component and a heat sink
- / 5G base station & infrastructure
- / EV electric vehicle

### ■ PRESERVATION

- / It can be preserved for 60 months under the condition of unopened and under room temperature 25°C.

### ■ PRECAUTIONS

- / TPS589 The principle of moisture hardening is to harden by reacting with moisture in the air at room temperature. The hardening process starts from the surface in contact with the air and hardens in the deep direction, so the hardening process is a little slow. The speed of hardening is related to temperature and humidity. When there is not enough water vapor in the use environment to react, it may not be completely hardened.

### ■ TYPICAL PROPERTIES

PROPERTY	TPS589	TEST METHOD	UNIT
Color	White	Visual	-
Resin base	Silicone	-	-
A:B	100:3	-	-
Viscosity	5.0	ISO 3219	Pa.s
Density	1.8	ASTM D792	g/cm <sup>3</sup>
Application temperature	-60~180	-	°C
Curing condition	25°C / 18hr	By LiPOLY	-
Hardness	50	ASTM D2240	Shore A
Shelf life	60 months	-	-
ROHS & REACH	Compliant	-	-
ELECTRICAL			
Dielectric breakdown	14	ASTM D149	KV/mm
Volume resistivity	>10 <sup>11</sup>	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	0.8	ASTM D5470	W/m*K



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