

# TPS587/588/589

## Two-Pack Thermal Conductive Sealing

LiPOLY TPS587/588/589 is a two-pack silicone material for gap filling. The viscosity and flowing is very low. 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.

LiPOLY's ability of research and development is providing our best thermal solution to customers, which can satisfy customer special requirement on advanced product.

### Features-

- Thermal conductivity: 2.0/1.5/0.8 W/m\*K
- Two-parts package and easy to use
- Waterproof and air-tight

### Typical Applications-

- Automotive electronics
- Telecommunications
- Computer and peripherals
- Thermally conductive vibration dampening
- Between any heat-generating component and a heat sink

### Preservation-

- It can be preserved for 12 months under the condition of unopened and under room temperature 25°C.



### Typical Properties-

PROPERTY	TPS587	TPS588	TPS589	TEST METHOD	UNIT
Color	White/Gray	White/Pink	White	Visual	-
Resin Base	Silicone	Silicone	Silicone	-	-
A:B	1:1	1:1	100:3	-	-
Viscosity	15	20	5	ISO 3219	Pa.s
Density	2.1	2.0	1.8	ASTM D792	g/cm <sup>3</sup>
Application temperature	-60~180	-60~180	-60~180	By LiPOLY	°C
Curing Condition 1	100°C/5 min	100°C/5 min	RT/7 day	By LiPOLY	-
Curing Condition 2	60°C/30 min	60°C/30 min	-	By LiPOLY	-
Curing Condition 3	25°C/300 min	25°C/300 min	-	By LiPOLY	-
Hardness	10	25	50	ASTM D2240	Shore A
<b>ELECTRICAL</b>					
Dielectric strength	350	350	350	ASTM D149	V/mil
Volume resistivity	>10 <sup>13</sup>	>10 <sup>12</sup>	>10 <sup>11</sup>	ASTM D257	Ohm-m
<b>THERMAL</b>					
Thermal Conductivity	2.0	1.5	0.8	ASTM D5470	W/m*K

# EP770

## Two-Part Thermal Conductive Sealing

LiPOLY EP770 is a two-part epoxy material for gap filling. Extremely low viscosity and flowability. Good dispersion and no delamination. The high deformation material, which filling the gap closely, cover the tolerance, and has outstanding conductivity, makes is suitable for filling the peculiar gap. Research and Development of LiPOLY is providing our best thermal solution to customers, which can satisfy customer special requirement on advanced.

### Features-

- Thermal conductivity: 2.5 W/m\*K
- Epoxy Based material with high hardness for support
- Can be applied with dispenser
- Room Temperature or heating curing

### Typical Applications-

- Electronic components: IC · CPU · MOS · Mother Board
- Wireless Hub
- Telecom Device
- Automotive electronics
- Computer and peripherals
- Thermally conductive vibration dampening
- Between any heat-generating component and a heat sink

### Configurations-

- Cartridges:1 kg
- Other special and custom sizes are available upon request

### Preservation-

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

### Typical Properties-

PROPERTY	EP770	TEST	UNIT
Color	Black	Visual	-
Resin Base	Epoxy	-	-
A:B	10:1	-	-
Viscosity A	200	ISO 3219	Pa.s
Viscosity A+B	2	ISO 3219	Pa.s
Density	1.8	ASTM D792	g/cm <sup>3</sup>
Application temperature	-60~150	-	°C
Curing Condition 1	80°C/1.5 hrs	By LiPOLY	-
Curing Condition 2	25°C/35 hrs	By LiPOLY	-
Hardness	80	ASTM D2240	Shore A
Shelf Life	60 months	-	-
ROHS&REACH	yes	-	-
ELECTRICAL			
Dielectric breakdown	350	ASTM D149	V/mil
Volume resistivity	>10 <sup>11</sup>	ASTM D257	Ohm-m
THERMAL			
Thermal Conductivity	2.5	ASTM D5470	W/m*K



#### Note:

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