

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



■ PRESERVATION

- / It can be preserved for 24 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 ³ |
| Application temperature | -60~180 | - | °C |
| Curing condition | 25°C / 7day | By LiPOLY | - |
| Hardness | 50 | ASTM D2240 | Shore A |
| Shelf life | 24 months | - | - |
| ROHS & REACH | Compliant | - | - |
| ELECTRICAL | | | |
| Dielectric breakdown | 14 | ASTM D149 | KV/mm |
| Volume resistivity | >10 ¹¹ | ASTM D257 | Ohm-m |
| THERMAL | | | |
| Thermal conductivity | 0.8 | ASTM D5470 | W/m*K |

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