

# TT3000

## Nano Thermal Grease

LiPOLY TT3000 is a Nano type thermal interface material based on a unique formula. TT3000's formulation is solvent-free. We used a unique silicone oil which interacts with thermally conductive fillers, making the compounds extremely stable, preventing pump-out problems and other common failure mechanisms. TT3000 has high thermal conductivity, low thermal resistance, improving the components performance as well as the product lifecycle.

### ■ FEATURES

- / Thermal conductivity: 6.0 W/m\*K
- / Excellent thermal conductivity
- / Stable and homogeneous compound to ensure thermal performance
- / Formula can fill the gap at low pressure
- / High stability and reliability
- / Solvent-free formula
- / The product is qualified for ROHS and REACH

### ■ TYPICAL APPLICATION

- / CPU and chip coolers
- / Switching power supplies
- / Between any heat-generating component and heat Sink
- / 5G base station & infrastructure
- / EV electric vehicle

### ■ CONFIGURATIONS

- / Tinplate Can: 1kg
- / 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 30°C.

### ■ TYPICAL PROPERTIES

| PROPERTY                | TT3000            | TEST METHOD | UNIT                   |
|-------------------------|-------------------|-------------|------------------------|
| Color                   | White             | Visual      | -                      |
| Resin base              | Silicone          | -           | -                      |
| Filler                  | Non-Metal         | -           | -                      |
| Viscosity               | 300               | ISO 3219    | Pa.s                   |
| Density                 | 3.3               | ASTM D792   | g/cm <sup>3</sup>      |
| Application temperature | -60~180           | -           | °C                     |
| Bond line thickness     | 10                | -           | µm                     |
| Shelf life              | 60 months         | -           | -                      |
| ROHS & REACH            | Compliant         | -           | -                      |
| ELECTRICAL              |                   |             |                        |
| Dielectric breakdown    | 8                 | ASTM D149   | KV/mm                  |
| Volume resistivity      | >10 <sup>12</sup> | ASTM D257   | Ohm-m                  |
| THERMAL                 |                   |             |                        |
| Thermal conductivity    | 6.0               | ASTM D5470  | W/m*K                  |
| Thermal impedance@50psi | 0.007             | ASTM D5470  | °C-in <sup>2</sup> / W |
| Thermal impedance@50psi | 5.0               | ASTM D5470  | °C-mm <sup>2</sup> / W |

