

EP770

Non-Silicone Two-Part Thermal Conductive Sealing Glue

LiPOLY EP770 is a silicone-free two-part sealing gap filler and caulking agent without low molecular siloxane volatilization. EP770 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: 2.5 W/m*K
- / Thermally conductive vibration dampening
- / Low mixing viscosity
- / Extremely low Shrinkage rate 0.01%.
- / Epoxy Based material with high hardness for support
- / Slow sedimentation rate due to Resin & powder mixing perfectly via superb processing technology. It leads EP770-s material easy to mix and disperse

■ TYPICAL APPLICATION

- / Motor: Torque motor 、 Linear Motor
- Servo motor
- / IGBT module
- / Electronic components: IC 、 CPU
- MOS 、 Mother Board
- / Wireless Hub
- / Automotive electronics
- / Between any heat-generating component and a heat sink
- / 5G base station & infrastructure
- / EV electric vehicle

■ CONFIGURATIONS

- / Tinplate Can: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 30°C.

■ PLEASE NOTE

It is recommended to preheat the material to 40°C for 20 minutes or 50°C for 10 minutes if ambient temperature is less than 25°C for better extrusion and mixing.

■ TYPICAL PROPERTIES

| PROPERTY | EP770 | TEST METHOD | UNIT |
|-------------------------|-------------------|-------------|-------------------|
| Color | Black | Visual | - |
| Resin base | Epoxy | - | - |
| A:B | 100:10 | - | - |
| Viscosity A | 350 | ISO 3219 | Pa.s |
| Viscosity mixed | 5 | ISO 3219 | Pa.s |
| Shrinkage rate | 0.01 | ASTM D2566 | % |
| Density | 1.8 | ASTM D792 | g/cm ³ |
| 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 |
| Tensile strength | 73 | ISO527 | N/cm ² |
| Lap shear to aluminum | 412 | ASTM D1002 | N/cm ² |
| Shelf life | 60 months | - | - |
| ROHS & REACH | Compliant | - | - |
| ELECTRICAL | | | |
| Dielectric breakdown | 14 | ASTM D149 | KV/mm |
| Volume resistivity | >10 ¹¹ | ASTM D257 | Ohm-m |
| THERMAL | | | |
| Thermal conductivity | 2.5 | ASTM D5470 | W/m*K |

