# EPDM30

## Two-Part Thermal Conductive Adhesive

LiPOLY EPDM30 is a silicone-free two-part liquid gap filler, with high viscosity and good adhesion, it can be fast cured at room temperature or elevated temperature. With a thermal conductivity of 3.0 W/m*K, EPDM30 provides high thermal conductivity and low thermal impedance. It is ideally suited for dispensing using the dispensing robot or by syringe.

## FEATURES

/ Thermal conductivity: 3.0 W/m*K
/ Can be applied with dispenser
/ Room Temperature curing or heating curing
/ Low compression stress during assembly
/ Excellent adhesion to metal & PCB

## TYPICAL APPLICATION

/ Electronic components: IC、CPU、MOS、Mother Board、Wireless Hub Telecom Device 、Automotive electronics、Computer and peripherals、Between any heat-generating component and a heat sink.

## CONFIGURATIONS

/ Cartridges:50ml, 400ml
/ 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℃.

## TYPICAL PROPERTIES

| PROPERTY | EPDM30 | TEST METHOD | UNIT |
|---|---|---|---|
| Color | White (A part)<br>Black (B part) | Visual | - |
| Resin base | Epoxy | - | - |
| A:B | 100:100 | - | - |
| Viscosity A | 270 | DIN 53018 | Pa.s |
| Viscosity B | 330 | DIN 53018 | Pa.s |
| Density | 2.8 | ASTM D792 | g/cm³ |
| Application temperature | -40~120 | - | °C |
| Surface dry | 25°C/50 min | By LiPOLY | - |
| Curing condition | 25°C/4 hrs | By LiPOLY | - |
| Hardness | 90 | ASTM D2240 | Shore A |
| Elongation at break | <1 | ISO527 | % |
| Tensile strength | 60 | ISO527 | N/mm² |
| Lap shear to aluminum | 300 | ASTM D1002 | N/mm² |
| 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 | 3.0 | ISO 22007-2 | W/m*K |