

EPDM20

Non-Silicone Two-Part Thermal Conductive Adhesive

LiPOLY EPDM20 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 2.2 W/m*K, EPDM20 provides high thermal conductivity and low thermal impedance. It is ideally suited for dispensing using the dispensing robot or by syringe.

■ FEATURES

- / Thermal conductivity: 2.2 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 、 Peripherals and High frequency magnetic inductor
- / 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 24 months under the condition of unopened and under room temperature 25°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.
- / It's recommended that the diameter of mixing tube outlet should be 3mm at least, which can solve the possible problem of poor fluidity caused by ambient temperature.

■ TYPICAL PROPERTIES

| PROPERTY | EPDM20 | TEST METHOD | UNIT |
|-------------------------|---------------------------------------|-------------|-------------------|
| Color | Black Gray (A part) Black (B part) | Visual | - |
| Resin base | Epoxy | - | - |
| A:B | 100:100 | - | - |
| Viscosity A | 265 | ISO 3219 | Pa.s |
| Viscosity B | 252 | ISO 3219 | Pa.s |
| Thixotropic Index | 4.1 | ISO 3219 | - |
| Density | 2.7 | ASTM D792 | g/cm ³ |
| Application temperature | -40~120 | - | °C |
| Surface dry | 25°C/55 min | By LiPOLY | - |
| Curing condition | 25°C/4 hrs | By LiPOLY | - |
| Hardness | 90 | ASTM D2240 | Shore A |
| Elongation at break | <1 | ISO527 | % |
| Tensile strength | 65 | ISO527 | N/cm ² |
| Lap shear to aluminum | 350 | ASTM D1002 | N/cm ² |
| 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 | 2.2 | ISO 22007-2 | W/m*K |

