

# EPDM30

## Non-Silicone 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 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	EPDM30	TEST METHOD	UNIT
Color	White (A part) 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/cm <sup>3</sup>
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/mm <sup>2</sup>
Lap shear to aluminum	300	ASTM D1002	N/mm <sup>2</sup>
Shelf life	24 months	-	-
ROHS & REACH	Compliant	-	-
<b>ELECTRICAL</b>			
Dielectric breakdown	14	ASTM D149	KV/mm
Volume resistivity	>10 <sup>11</sup>	ASTM D257	Ohm-m
<b>THERMAL</b>			
Thermal conductivity	3.0	ISO 22007-2	W/m*K

