

EPDM30

Non-Silicone Two-Part Thermal Conductive Adhesive

LiPOLY EPDM30 is a silicone-free two-part liquid caulking agent that does not volatilize low-molecular-weight siloxane. With high viscosity and good adhesion, it can cure quickly 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、Peripherals and High frequency magnetic inductor
- / Between any heat-generating component and a heat sink.
- / 5G base station & infrastructure
- / EV electric vehicle

■ 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	Black Gray (A part) Black (B part)	Visual	-
Resin base	Epoxy	-	-
A:B	100:100	-	-
Viscosity A	270	ISO 3219	Pa.s
Viscosity B	240	ISO 3219	Pa.s
Thixotropic Index	4.3	ISO 3219	-
Density	2.8	ASTM D792	g/cm ³
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/cm ²
Lap shear to aluminum	300	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	3.0	ISO 22007-2	W/m*K

