EP770-s



Non-Silicone Two-Part Thermal Conductive Sealing Glue

LiPOLY EP770-s is a silicone-free two-part sealing gap filler and caulking agent without low molecular siloxane volatilization. EP770-s 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

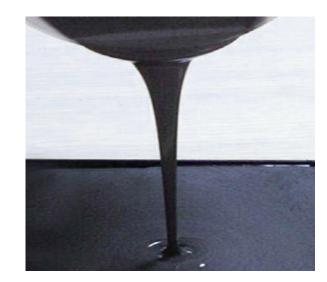
It can be preserved for 24 months under the condition of unopened and under room temperature 25°C.

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.

TYPICAL PROPERTIES

PROPERTY	EP770-s	TEST METHOD	UNIT
Color	Black	Visual	-
Resin base	Ероху	-	-
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/cm³
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	24 months	-	-
ROHS & REACH	Compliant	-	-
ELECTRICAL			
Dielectric breakdown	14	ASTM D149	KV/mm
Volume resistivity	>1011	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	2.5	ASTM D5470	W/m*K



Note: All specifications provided by LiPOLY are subject to change without notice. The test methods used by LiPOLY are based on the TIM Tester method and ASTM D5470 test method. These test methods are used as the definition standards for LiPOLY. Property values provided in this document are not for product specifications or guaranteed. This document does not guarantee the performance and quality required for the purchaser's specific purpose. The purchaser neets the valuate and verify the starty before using the material. We strongly recommend the purchaser pre-test the product and verify the performance of the product specific or guarantee. The solution of the product are series? specific continuous. Libbility and use of the product are the responsibility of the end user. LiPOLY makes no warranty as to the suitability, merchantability, or non-infringement of any LiPOLY material or product for any specific or general uses. LiPOLY shall not be liable for incidental arconsequential damages of any kind. All LiPOLY products are sold in accordance with the LiPOLY Terms and Conditions in effect at the time of purchase and a copy of which will be furnished upon request. All rights reserved, including LiPOLY trademarks or registered trademarks of LiPOLY or its affiliates. Statements concerning possible or suggested uses made herein shall not be relied upon or be constructed as a guaranty of patent infringement. Copyright 2023 LiPOLY.