

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 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	EPDM20	TEST METHOD	UNIT
Color	White (A part) Black (B part)	Visual	-
Resin base	Epoxy	-	-
A:B	100:100	-	-
Viscosity A	265	DIN 53018	Pa.s
Viscosity B	252	DIN 53018	Pa.s
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/mm ²
Lap shear to aluminum	350	ASTM D1002	N/mm 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



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 needs to evaluate and verify the safety before using the material. We strongly recommend the purchaser pre-test the product and verify the performance of the product under the purchaser's specific conditions. Liability 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 or consequential 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 2022 LiPOLY.