

N800A

Non-Silicone Thermal Conductive Pad

Non-Silicone Thermal Compound N800A is made of non-silicon resin material. No low-molecular-weight siloxane volatilization, no electrical contact & pollution problems. N800A is flexible and has great thermal conduction, making the thermal resistance as low as possible. The thermal conductivity is 9.0W/m*K. It's suitable for optical and sensitive electric components.

FEATURES

- / Thermal conductivity:9.0 W/m*K
- / It's made by non-silicone resin materials
- / Low contact thermal resistance
- / With electrical insulation
- / Outstanding thermal conductivity
- / Applicable to optical and sensitive electric components

TYPICAL APPLICATION

- / HDDS
- / Optical appliance

SPECIFICATIONS

/ Sheet form / Die-cut parts



TYPICAL PROPERTIES

PROPERTY	N800A	TEST METHOD	UNIT
Color	Pink	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	3.4	ASTM D792	g/cm³
Hardness	50	ASTM D2240	Shore OO
Application temperature	-60~125	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	14	ASTM D5470 modify	%
Deflection @20 psi	35	ASTM D5470 modify	%
Deflection @30 psi	67	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	8	ASTM D149	KV/mm
Surface resistivity	>1011	ASTM D257	Ohm
Volume resistivity	>1010	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	9.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.238	ASTM D5470	°C-in²/W
Thermal impedance@20 psi	0.166	ASTM D5470	°C-in²/W
Thermal impedance@30 psi	0.102	ASTM D5470	°C-in²/W

The chemical formula indicates that if Cyclic polydimethylsilox-ane $(HO-[Si(CH_3)_2O]_n-H)$ is non-reaction, it's volatile anytime and everywhere. For example, when the electric products which has been put in a confined space, the volatile of low-molecular-weight silox-anes will makes the electric products uncontacted.

80% 1.10 1.00 70% 0.90 60% 0.80 R(°C-in²/W) 0.70 50% 0.60 40% 0.50 30% 0.40 0.30 20% 0.20 10% 0.10 0% 0.00 0 10 20 30 Pressure(psi)

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 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 on-infringement of any LiPOLY material or product for any specific orgeneral uses. LiPOLY shall not be liable for incidental orconsequential damages of any kind. All LiPOLY products are sold in accordance with the LiPOLY Terms and Conditions in effect at the time of purchaser 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.

Thermal Resistance vs. Pressure vs. Deflection