

N700B

Non-Silicone Thermal Conductive Pad

Non-Silicone Thermal Compound N700B is made of non-silicon resin material. No low molecular siloxane volatilization and low total volatile gas, no electrical contact & pollution problems. N700B is flexible and has great thermal conduction, Low compressive stress and high compressive characteristics can effectively reduce the stress load of components, so that the equipment only needs to bear less mechanical stress, and at the same time, it can have low thermal resistance and high thermal conductivity.

FEATURES

/ Thermal conductivity:3.0 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
- / 5G base station & infrastructure
- / EV electric vehicle

SPECIFICATIONS

- / Sheet form
- / Die-cut parts

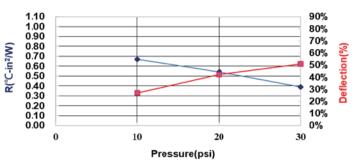


TYPICAL PROPERTIES

| PROPERTY | N700B | TEST METHOD | UNIT |
|---|------------|-----------------------|---------------------|
| Color | Red | Visual | - |
| Surface tack 2-side/1-side | 2 | - | - |
| Thickness | Customized | ASTM D374 | mm |
| Density | 2.6 | ASTM D792 | g/cm³ |
| Hardness | 60 | ASTM D2240 | Shore OO |
| Tensile Strength | 1.0 | ASTM D412 | Kgf/cm ² |
| Application temperature | -60~125 | - | °C |
| Low molecular Siloxane (D3 to D20 total) | N.D | Gas Chromatography | % |
| Outgassing CVCM (wt%) | 0.0072 | By LiPOLY | - |
| ROHS & REACH | Compliant | - | - |
| COMPRESSION@1.0mm | | | |
| Deflection @10 psi | 27 | ASTM D5470 modify | % |
| Deflection @20 psi | 42 | ASTM D5470 modify | % |
| Deflection @30 psi | 51 | ASTM D5470 modify | % |
| ELECTRICAL | | | |
| Dielectric breakdown | 16 | ASTM D149 | KV/mm |
| Surface resistivity | >1011 | ASTM D257 | Ohm |
| Volume resistivity | >1010 | ASTM D257 | Ohm-m |
| THERMAL | | | 1 |
| Thermal Conductivity | 3.0 | ASTM D5470 | W/m*K |
| Thermal impedance@10 psi | 0.671 | ASTM D5470 | °C-in²/ W |
| Thermal impedance@20 psi | 0.543 | ASTM D5470 | °C-in²/ W |
| Thermal impedance@30 psi | 0.392 | ASTM D5470 | °C-in²/ W |
| Thermal impedance@40 psi | 0.236 | ASTM D5470 | °C-in²/ W |
| Thermal impedance@50 psi | 0.169 | ASTM D5470 | °C-in²/ W |
| | 1 | | 1 |

The chemical formula indicates that if Cyclic polydimethylsilox-ane (HO-[Si(CH3)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 elecetic products uncontacted.

Thermal Resistance vs. Pressure vs. Deflection



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 performance of the product nave for the product and verify the performance of the product nave for the purchaser pretest the product and verify the performance of the product nave for 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 non-infringement of any LiPOLY material or product for any specific or general uses. LiPOLY shall not be liable for incidental orconsequential damages of any kind. All LIPOLY products are sold in accordance with the LIPOLY Terma and Conditions in effect at the time of purchase and a copy of which will be (minished upon request. All ripotts 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.