BS89



Exceptionally Soft Thermal Conductive Gel Pad

LiPOLY BS89 is an ultra-soft thermally conductive gel pad with a thermal conductivity of 5.0 W/m*K.BS89 offers excellent compression under minimal force with high recovery characteristics. This product can be supplied as standard sheets, custom die-cuts or custom molded parts.

FEATURES

- / Thermal conductivity: 5.0 W/m*K
- / High compression rate
- / Low thermal impedance
- / High recovery
- / Available in a range of thicknesses

TYPICAL APPLICATION

- / Between CPU and heat sink
- / Between a component and heat sink
- / Notebook computers
- / Power supplies
- / High speed mass storage drives
- / Telecommunication hardware

SPECIFICATIONS

- / Sheet form
- / Die-cut parts

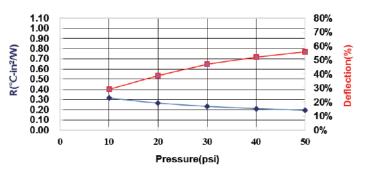




TYPICAL PROPERTIES

| | DCOO | | |
|----------------------------|------------|-------------------|----------|
| PROPERTY | BS89 | TEST METHOD | UNIT |
| Color | Gray | Visual | - |
| Surface tack 2-side/1-side | 2 | - | - |
| Thickness | Customized | ASTM D374 | mm |
| Density | 3.0 | ASTM D792 | g/cm³ |
| Hardness | 25 | ASTM D2240 | Shore OO |
| Application temperature | -60~180 | - | °C |
| ROHS & REACH | Compliant | - | - |
| COMPRESSION@1.0mm | | | |
| Deflection @10 psi | 29 | ASTM D5470 modify | % |
| Deflection @20 psi | 39 | ASTM D5470 modify | % |
| Deflection @30 psi | 47 | ASTM D5470 modify | % |
| Deflection @40 psi | 52 | ASTM D5470 modify | % |
| Deflection @50 psi | 56 | 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 | 5.0 | ASTM D5470 | W/m*K |
| Thermal impedance@10 psi | 0.318 | ASTM D5470 | °C-in²/W |
| Thermal impedance@20 psi | 0.266 | ASTM D5470 | °C-in²/W |
| Thermal impedance@30 psi | 0.233 | ASTM D5470 | °C-in²/W |
| Thermal impedance@40 psi | 0.211 | ASTM D5470 | °C-in²/W |
| Thermal impedance@50 psi | 0.194 | ASTM D5470 | °C-in²/W |

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 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 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 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.