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
- / 5G base station & infrastructure
- / EV electric vehicle

■ SPECIFICATIONS

/ Roll form / Sheet form / Die-cut parts





■ TYPICAL PROPERTIES

| | 0 | | |
|----------------------------|------------|-------------------|-----------|
| 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 | 12 | 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

