

N800B

Non-Silicone Thermal Conductive Pad

Non-Silicone Thermal Compound N800B is made of non-silicon resin material. No low-molecular-weight siloxane volatilization, no electrical contact & pollution problems. N800B is flexible and has great thermal conduction, making the thermal resistance as low as possible. The thermal conductivity is 13.0W/m*K. It's suitable for optical and sensitive electric components.

FEATURES

- / Thermal conductivity:13.0 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

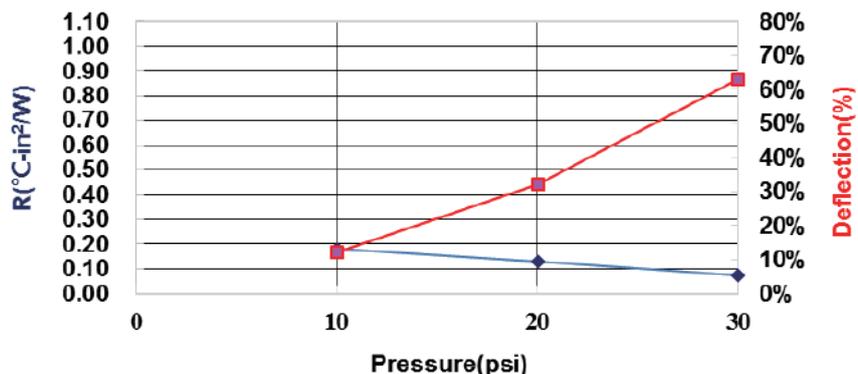


TYPICAL PROPERTIES

| PROPERTY | N800B | TEST METHOD | UNIT |
|----------------------------|-------------------|-------------------|------------------------|
| Color | Gray | Visual | - |
| Surface tack 2-side/1-side | 2 | - | - |
| Thickness | Customized | ASTM D374 | mm |
| Density | 3.3 | ASTM D792 | g/cm ³ |
| Hardness | 50 | ASTM D2240 | Shore OO |
| Tensile Strength | 0.15 | ASTM D412 | Kgf/cm ² |
| Application temperature | -60~125 | - | °C |
| ROHS & REACH | Compliant | - | - |
| COMPRESSION@1.0mm | | | |
| Deflection @10 psi | 12 | ASTM D5470 modify | % |
| Deflection @20 psi | 32 | ASTM D5470 modify | % |
| Deflection @30 psi | 63 | ASTM D5470 modify | % |
| ELECTRICAL | | | |
| Dielectric breakdown | 8 | ASTM D149 | KV/mm |
| Surface resistivity | >10 ¹¹ | ASTM D257 | Ohm |
| Volume resistivity | >10 ¹⁰ | ASTM D257 | Ohm-m |
| THERMAL | | | |
| Thermal conductivity | 13.0 | ASTM D5470 | W/m*K |
| Thermal impedance@10 psi | 0.183 | ASTM D5470 | °C-in ² / W |
| Thermal impedance@20 psi | 0.131 | ASTM D5470 | °C-in ² / W |
| Thermal impedance@30 psi | 0.074 | ASTM D5470 | °C-in ² / W |

The chemical formula indicates that if Cyclic polydimethylsiloxane (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 siloxanes will makes the electric products uncontacted.

Thermal Resistance vs. Pressure vs. Deflection



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