

# N800A-s

## Non-Silicone Thermal Conductive Pad

LiPOLY N800A-s はノンシリコン樹脂の材料で作りました。低分子シロキサの揮発は少ないので、電子回路接点不良という状況はありません。N800A-sは良い熱伝導性があって、熱伝導率は  $9.0W / m^{\circ}K$  です。熱抵抗も低いて、光学製品や敏感な電子部品の使用には適合です。

### ■ 製品の特性

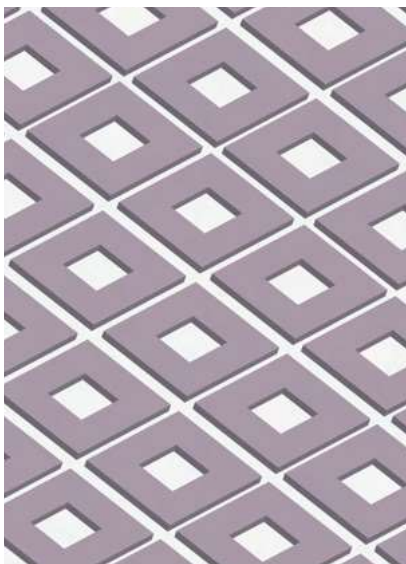
/ 熱伝導率:  $9.0 W/m^{\circ}K$   
/ ノンシリコン材料  
/ 接触熱抵抗が小さい  
/ 電気絶縁  
/ 優れる熱伝導率  
/ 光学デバイスに適合

### ■ 製品アプリケーション

/ ハードディスク  
/ 光学デバイス  
/ 5Gの基地局(基幹施設/設備)  
/ 電気自動車

### ■ 製品の形

/ シート状  
/ フォーミング形



### ■ TYPICAL PROPERTIES

| PROPERTY                                 | N800A-s    | TEST METHOD        | UNIT                 |
|------------------------------------------|------------|--------------------|----------------------|
| Color                                    | Pink       | Visual             | -                    |
| Surface tack 2-side/1-side               | 2          | -                  | -                    |
| Thickness                                | Customized | ASTM D374          | mm                   |
| Density                                  | 3.4        | ASTM D792          | $g/cm^3$             |
| Hardness                                 | 50         | ASTM D2240         | Shore OO             |
| Tensile Strength                         | 0.15       | ASTM D412          | $Kgf/cm^2$           |
| Application temperature                  | -60~125    | -                  | $^{\circ}C$          |
| Low molecular Siloxane (D3 to D20 total) | N.D        | Gas Chromatography | %                    |
| Outgassing CVCN (wt%)                    | 0.0049     | By LiPOLY          | -                    |
| 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                      | $>10^{11}$ | ASTM D257          | Ohm                  |
| Volume resistivity                       | $>10^{10}$ | ASTM D257          | Ohm-m                |
| THERMAL                                  |            |                    |                      |
| Thermal conductivity                     | 9.0        | ASTM D5470         | $W/m^{\circ}K$       |
| Thermal impedance@10 psi                 | 0.238      | ASTM D5470         | $^{\circ}C-in^2 / W$ |
| Thermal impedance@20 psi                 | 0.166      | ASTM D5470         | $^{\circ}C-in^2 / W$ |
| Thermal impedance@30 psi                 | 0.102      | ASTM D5470         | $^{\circ}C-in^2 / W$ |

The chemical formula indicates that if Cyclic polydimethylsiloxane ( $HO-[Si(CH_3)_2O]_n-H$ ) 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 siloxanes will makes the electric products uncontacted.

### Thermal Resistance vs. Pressure vs. Deflection

