

# **N800B**

## **Non-Silicone Thermal Conductive Pad**

Non-Silicone Thermal Compound N800B is made of non-silicon resin material and none low-molecular-weight siloxane. N800B helps avoid electrical contact problems. N800 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 of non-silicon resin materials
- Non-volatile, none Low-molecular-weight siloxane
- ·Low contact thermal resistance
- Electrical Insulation

### **Typical Applications-**

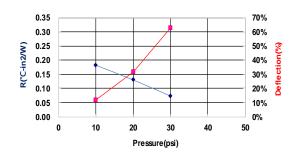
Applicable for optical and sensitive electrical components

#### **Specifications-**

- Sheet form
- · Die-cut parts



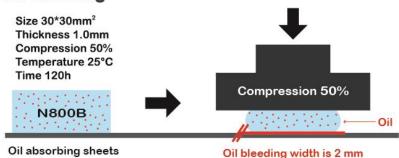
#### Thermal Resistance vs. Pressure vs. Deflection



#### **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 <sup>3</sup>
Hardness	50	ASTM D2240	Shore OO
Application temperature	-60~125	-	°C
ROHS&REACH	Compliant	-	-
COMPRESSION@1.0mn	n		
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 <sup>11</sup>	ASTM D257	Ohm
Volume resistivity	>10 <sup>10</sup>	ASTM D257	Ohm-m
THERMAL			
Thermal Conductivity	13.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.183	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	0.131	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.074	ASTM D5470	°C-in²/W

### Oil Bleeding-



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.

Note:

Note:
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