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

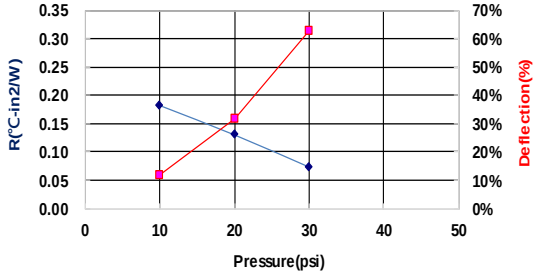
Typical Applications-

- Applicable for optical and sensitive electrical components

Specifications-

- Sheet form
- Die-cut parts

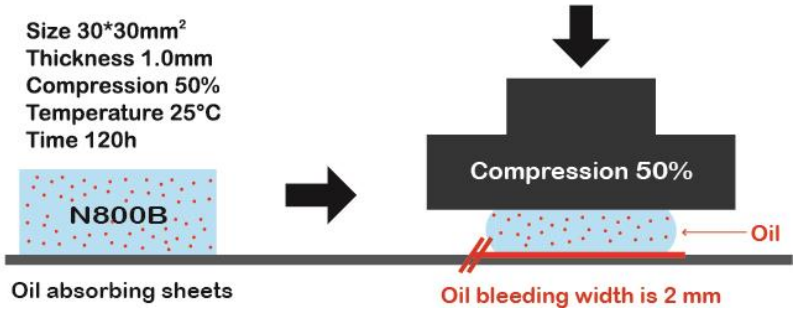
Thermal Resistance vs. Pressure vs. Deflection



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^3
Hardness		50	ASTM D2240	Shore OO
Application temperature		-60~125	-	℃
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	℃-in^2/ W
Thermal impedance@20 psi		0.131	ASTM D5470	℃-in^2/ W
Thermal impedance@30 psi		0.074	ASTM D5470	℃-in^2/ 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.