

# THER NBHs-800-11-50 *Patron*

*Passive Elektronik*

Bcb!Gj]WcbY'H Yfa U`7 cbXi Wj] Y'DUX



Non-Silicone Thermal Compound NÓHs-800 is made of non-silicon resin material. No low molecular siloxane volatilization and low total volatile gas, no electrical contact & pollution problems. NÓHs-800 is flexible and has great thermal conduction, Low compressive stress and high compressive characteristics can effectively reduce the stress load of components, so that the equipment only needs to bear less mechanical stress, and at the same time, it can have low thermal resistance and high thermal conductivity.

## FEATURES

- / Thermal conductivity:11.0 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
- / 5G base station & infrastructure
- / EV electric vehicle

## HOW TO ORDER

Patron THER NBHs-800-11-50 XXX-YYY-ZZmm  
XXX = width in mm  
YYY = depth in mm  
ZZ = thickness in mm

<https://www.patron-components.com/>

## TYPICAL PROPERTIES

PROPERTY	NÓP•ß00	TEST METHOD	UNIT
Color	Pink	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	3.3	ASTM D792	g/cm³
Hardness	50	ASTM D2240	Shore OO
Tensile Strength	0.15	ASTM D412	Kgf/cm²
Application temperature	-60~125	-	°C
Low molecular Siloxane (D3 to D20 total)	N.D	Gas Chromatography	%
Outgassing CVCm (wt%)	0.0047	-	-
ROHS & REACH	Compliant	-	-

### COMPRESSION@1.0mm

Deflection @10 psi	13	ASTM D5470 modify	%
Deflection @20 psi	34	ASTM D5470 modify	%
Deflection @30 psi	65	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	11.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.210	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	0.148	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.088	ASTM D5470	°C-in²/ W

The chemical formula indicates that if Cyclic polydimethylsilox-ane (HO-[Si(CH<sub>3</sub>)<sub>2</sub>O]<sub>n</sub>-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 silox-anes will makes the elecetic products uncontacted.

## Thermal Resistance vs. Pressure vs. Deflection

