



# KYI-H800 series (Thermal Gap Filler)

## DATA SHEET



- Product picture -

### FEATURES:

- Low thermal resistance
- Being recognized as UL94 V-0
- Viscous surface
- Being able to work under low pressure
- Excellent insulation performance and thermal resistance

### APPLICATIONS:

- Between chip and heat-dissipation modules
- Optoelectronic Industry
- Netcom products
- New energy battery and vehicles industry
- Household appliances
- Wearable equipments

The series of products are accord with standards of RoHS and HALOGEN.

**STORAGE CONDITIONS:** Storage in the darkness

**STORAGE TEMPERATURE:**  $\leq 30\text{ }^{\circ}\text{C}$

**STORAGE HUMIDITY:**  $\leq 70\%$

The height of the stacking should not be more than 7 layers and the total height should not be more than 1m.

**SHELF LIFE:** Two years at storage conditions;Unqualified for storage conditions: 6 months.

Thermal gap filler has excellent flexibility insulation,compressibility and natural surface viscosity performances.It used to fill the gap and realize the heat transfer between the heating parts and cooling parts.It also has insulation and shock mitigation effects Meanwhile,it can satisfy the design requirements for minitype and ultra-thin equipments with excellent manufacturability and practicability.With wide range of thickness,it is widely used in electronic products.

### PROPERTIES

Items	Parameter	Unit	Test Instrument
Color	Gray	-	Visual
Thickness	0.5~3	mm	ASTM D 374
Hardness	35(±5)	Shore C	ASTM D 2240
Density	3.4(±0.3)	g/cc	ASTM D 792
Tensile Strength	$\geq 0.12$	Mpa	ASTM D 412
Elongation	$\geq 60$	%	ASTM D 412
Compression Ratio	$\geq 20$ (@50Psi)	%	ASTM D 695
Tear strength	$\geq 0.35$	N/mm	ASTM D 624
UL Certification	V-0	-	UL 94
Operating Temperature	-40~130	$^{\circ}\text{C}$	IEC 60068-2-14

### THERMAL CHARACTERISTIC

Thermal Conductivity	8.0(±0.5)	W/m·K	ASTM D 5470
Thermal Resistance	$\leq 0.2$ (@20Psi/1mm)	$^{\circ}\text{Cin}^2/\text{W}$	ASTM D 5470

### ELECTRICAL PROPERTIES

Breakdown Voltage	$\geq 3$	KV/mm	ASTM D 149
Volume Resistivity	$\geq 10^{10}$	$\Omega\cdot\text{cm}$	ASTM D 257
Dielectric constant	$\geq 5$	@1MHz	ASTM D 150
Dielectric loss	$\leq 0.1$	@1MHz	ASTM D 150

