



## DATA SHEET



-Product picture-

### FEATURES:

- Soft, excellent compression performance
- 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

This series of products are environmentally compliant with RoHS 2.0, halogen, and REACH standards.

**STORAGE CONDITIONS :** Storage in the darkness

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

**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 :

Under storage conditions: 2 year

Non storage conditions: 6 months.

### PROPERTIES

| Items                 | Parameter          | Unit               | Test Method    |
|-----------------------|--------------------|--------------------|----------------|
| Color                 | Sky Blue           | -                  | Visual         |
| Thickness             | 0.3~18             | mm                 | ASTM D 374     |
| Hardness              | 15~55( $\pm 5$ )   | Shore C            | ASTM D 2240    |
| Density               | 3.01( $\pm 0.5$ )  | g/cc               | ASTM D 792     |
| Tensile Strength      | $\geq 0.15$        | Mpa                | ASTM D 412     |
| Elongation            | $\geq 60$          | %                  | ASTM D 412     |
| Compression Ratio     | $\geq 20$ (@50Psi) | %                  | ASTM D 575     |
| UL Certification      | V-0,5V             | -                  | UL94           |
| Operating Temperature | -50~180            | $^{\circ}\text{C}$ | IEC 60068-2-14 |

### THERMAL CHARACTERISTIC

|                      |                         |                                 |             |
|----------------------|-------------------------|---------------------------------|-------------|
| Thermal conductivity | 3.0( $\pm 0.25$ )       | W/m·K                           | ASTM D 5470 |
| Thermal resistance   | $\leq 0.9$ (@20psi&1mm) | $^{\circ}\text{Cin}^2/\text{W}$ | ASTM D 5470 |

### ELECTRICAL PROPERTIES

|                     |                |                        |            |
|---------------------|----------------|------------------------|------------|
| Breakdown voltage   | $\geq 8$       | kV /mm                 | ASTM D 149 |
| Volume resistivity  | $\geq 10^{10}$ | $\Omega\cdot\text{cm}$ | ASTM D 257 |
| Dielectric constant | $\geq 2$       | @1MHz                  | ASTM D 150 |
| Dielectric loss     | $\leq 0.1$     | @1MHz                  | ASTM D 150 |

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