

TG-ASD50AB

Thermally Conductive Gel

REACH Compliant RoHS Compliant UL Comparable

Features

- Good thermal conductivity
- Thermal gel gun friendly & easy assembly
- A:B=1:1
- Cures at room temperature or with heat

Applications

Electronic Components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

Storage

Thermally Conductive Gel has a shelf-life of 12 months from the date of manufacture, as indicated by the lot number, when stored in the original, should be unopened container at or below 25°C.

Operation Manual

Pot



- ① Mix component A and B. ② Vacuum out air. ③ Pour potting compound.

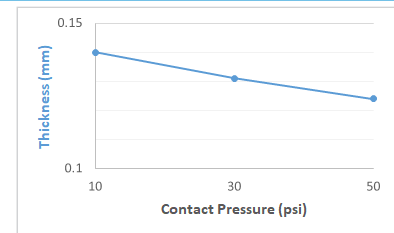
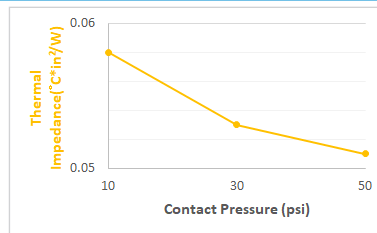
Tube



- ① Push the latch and insert the stick. ② Put the tube in. ③ Close the cover.

Properties

Curing Contact Pressure, Thermal Impedance, and Thickness



| Properties | Unit | TG-ASD50AB | Tolerance | Test Method |
|------------------------------|---------------------|-------------------|-----------------------------------|--------------------------|
| Thermal Conductivity | W/m·K | 5.0 | ±0.5 | ISO 22007-2 |
| Color | - | A:Green / B:White | - | ASTM D2244 |
| Dielectric Breakdown Voltage | kV/mm | 5 | ±3 | ASTM D149 |
| Volume Resistivity | Ohm·m | 10 ⁹ | 10 ⁸ ~10 ¹⁰ | ASTMD257 |
| Density | g/cm ³ | 3.05 | ±0.15 | ASTM D792 |
| Operating Temperature | ° C | -50~+150 | - | - |
| Weight Loss | % | <1 | - | By T-Global |
| Viscosity @1.0rpm | Pa·s | A:250 / B:250 | ±100 | ASTM D7395 ASTM D4287 |
| Elongation | % | >100 | - | ASTM D412 |
| Tensile Strength @T3.0mm | kgf/cm ² | 3 | - | ASTM D412 |
| Curing Time @25° C | Min | 120~240 | - | - |
| Curing Time @50° C | Min | 40~60 | - | - |
| Curing Time @80° C | Min | 20~40 | - | - |
| Standard Package | - | Pot / Tube | - | - |
| Mixing Ratio | - | 1:1 | - | - |
| Hardness | Shore OO | 40 | ±10 | ASTM D2240 |

▶ Component A & Component B are mixed material. It is normal to cause precipitation and stratification due to different density. Well mixed component A before use by a flat spatula or other stainless tools to achieve the ideal thermal conductivity.

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Version21
20260127



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