



# TG-A09AB / TG-S09AB Silicone Potting Compound

REACH Compliant    RoHS Compliant

### Features

- Good thermal conductivity
- Protect electronic components after cured
- A:B=1:1
- Cured by room temperature or heating

### Application:

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.

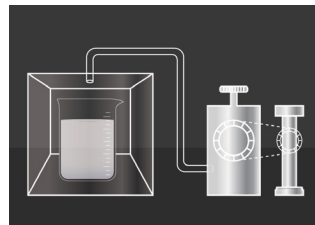
### Storage:

Silicone Potting Compound 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.

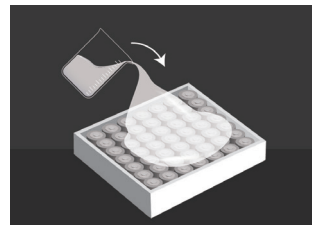
### Operation Manual



① Mix component A and B.



② Vacuum out air.

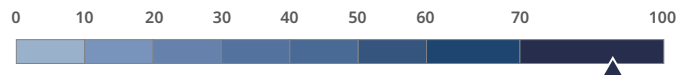
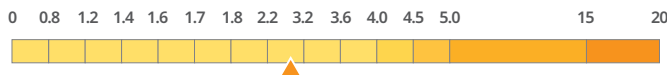


③ Pour potting compound.

### Properties

Thermal Conductivity : 2.8 W/m•K

Hardness : 90 (Shore OO)



| Properties                   | Unit                | TG-A09AB / TG-S09AB | Tolerance | Test Method         |
|------------------------------|---------------------|---------------------|-----------|---------------------|
| Thermal Conductivity         | W/m•K               | 2.8                 | ±10%      | ASTM D5470 Modified |
| Color                        | -                   | Gray (Mix)          | -         | -                   |
| Dielectric Breakdown Voltage | KV/mm               | ≥11                 | -         | ASTM D149           |
| Volume Resistivity           | Ohm-m               | ≥10 <sup>12</sup>   | -         | ASTMD257            |
| Density                      | g/cm <sup>3</sup>   | 2.52                | ±5%       | ASTM D792           |
| Operating temperature        | °C                  | -50~+150            | -         | -                   |
| Tensile Strength @3.0mm      | kgf/cm <sup>2</sup> | 230                 | -         | ASTM D412           |
| Elongation                   | %                   | 55                  | -         | ASTM D412           |
| Viscosity                    | Pa·s                | 10~50               | -         | Brookfield          |
| Weight Loss                  | %                   | <1                  | -         | ASTM E595 Modified  |
| Curing Time @25° C           | Hrs                 | 6                   | ±10%      | -                   |
| Curing Time @50° C           | Hrs                 | 0.6                 | ±10%      | -                   |
| Curing Time @80° C           | Hrs                 | 0.08                | ±10%      | -                   |
| Standard Package             | -                   | Pot                 | -         | -                   |
| Hardness                     | Shore OO            | 90                  | ±10       | -                   |
| Mixing Ratio                 | gram                | 1:1                 | -         | -                   |

▶ 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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