

Two part RTV silicone elastomeric

GB 4808 Silicone Electronic Potting Sealant

FEATURES

- **UL certified**
- Good flowability as supplied , good self-debubbling performance
- Stable and elastic over the temperature $-60^{\circ}\text{C}\sim+200^{\circ}\text{C}$
- Excellent electrical insulation , and fire resistance performance
- Excellent resistance to water ,moisture
- Excellent adhesion to PPO,PET,PVDF and other materials
- Non-corrosive to copper, aluminium, tin ,silver and many other materials
- FV-0 class fire resistance capability
- Excellent thermal conductivity

COLOURS

GB 4808 part A is available in white or black fluid, and part B in clear or shallow yellow liquid. It is white or black fluid after mixing.

PACKAGING

GB4808 is available in kits: Part A in plastic pails (12kg), part B in plastic pails (2kg); or Part A in plastic pails (3kg), part B in plastic cartridges (300ml, 0.5kg).

BASIC USES

- Potting the junction boxes of solar modules
- Potting the wind turbines, motors, air cooler machines and other large electromechanical equipment for watertight, thermal dissipation and buffer purposes
- Bonding, fixing and thermal conductive potting for electronic components and electric equipment

TYPICAL PROPERTIES

Test Method	Property	Unit	Result
As supplied			
/	Appearance		Part A: white fluid Part B: shallow yellow liquid
GB/T 2794	Viscosity as mixed at 25°C	mPa•s	2000~4000
GB/T 13477	Density	g/m^3	1.36~1.42
/	Working time	min.	15-90
/	Curing time	h	24
Cured after 7 days at $23\pm 2^{\circ}\text{C}$, RH $50\pm 5\%$			
GB/T 531.1	Hardness	Shore A	45~55
GB/T 528	Tensile strength	MPa	≥ 1.0
GB/T 1692	Volume resistivity	$\Omega\cdot\text{cm}$	$\geq 1\times 10^{14}$
GB/T 1695	Dielectric strength	kV/mm	≥ 18
GB/T 1693	Dielectric constant (1MHz)		3.0
ISO 22007-2	Thermal conductivity	W/m·K	≥ 0.4

These values are not intended for use in preparing specifications.

*GB: Chinese National Standard

ASTM: American Society for Testing and Materials

ISO: International Standardization Organization

HOW TO USE

- Mix part A base to Part B curing agent at a ratio of 6:1 by weight or 4:1 by volume, and then pot the mixture into the parts of substrates where needed, place at room temperature for initial curing for about 2~4 hours before conducting the next procedure. If precipitation occurs in Part A, just stir it well before use, and this does not affect the performance of the sealant.
- When using automatic dispensing machine, set at a ratio of 6:1 by weight or 4:1 by volume of part A to Part B for a test first and then put into use.

STORAGE AND SHELF LIFE

- GB4808 should be stored in original unopened containers over temperature from 4°C to 27°C and be kept away from rain or direct sunshine.
- GB 4808 has a shelf life of 9 months from the date of manufacture.
- GB 4808 is non-hazardous for transportation.

NOTES

- Screw tight the cover of Part B immediately after use to avoid the exposure to atmospheric moisture
- Part A base and part B curing agent should be fully mixed to ensure the homogeneity of the sealant, or it affects the performance of the sealant.
- Part A and Part B should be kept separately and get mixed on site, and be used within a short time after mixing.
- For common low-voltage electrical potting, de-bubbling is not needed, but vacuum de-bubbling for 3~5 minutes is required for high voltage electrical potting.

SAFETY INFORMATION

- GB 4808 is a chemical product, not edible, no implantation into body and should be kept away from children.
- Should uncured silicone sealant contact with eyes, rinse thoroughly with water and seek medical treatment if irritation persists.
- Avoid prolonged periods of exposure of skin to uncured silicone sealant.

- Good ventilation is necessary for work and cure places.

WARRANTY

Guibao has been certified by ISO9001, ISO14001 and OHSAS18001 management systems. The whole production process goes strictly in conformity with the regulations.

AVAILABILITY

GB silicone sealants are available from Guibao company or local distributors.

DISCLAIMER

The information presented herein is offered in good faith and is believed to be accurate. However, because conditions and methods of using our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for specific applications.

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