

BESIL 8125 A/B Silicone Potting Adhesive

The Solutions that Create Value!

Condensed silicone Potting Material

PRODUCT DESCRIPTION:

BESIL 8125 A/B is a normally popular potting material. It supplies stable protection to variety of electric components. The mixture is flowable, would be deeply cured. The operation time can be adjusted according to the temperature and agent added. The majority of materials have a good bonding effect without primer, suitable for accessories fixed and waterproof, dust and leakage.

- 1) Two-component, condensation de-alcohol type
- 2) Low viscosity, easy processing
- 3) Low hardening shrinkage, no corrosion without stress
- 4) Excellent high temperature electrical insulation, stability set
- 5) Excellent adhesion, good waterproof, moisture resistance



APPLICATIONS:

- 1) Automotive electronics, modules
- 2) Power control module
- 3) Solar module junction box
- 4) LED spotlights, wall washer, bar lights, LED lamps

TYPICAL PROPERTIES:

Item	Method	8125T-A	8125M-A	8125W-A	8125 W-1-A	8125B-A	8125T-B	8125-B
Component		A	A	A	A	A	B	B
Appearance	Visual	colorless transparent fluid	Matte white fluid	white, fluid	White low viscosity fluid	black, fluid	colorless fluid	colorless fluid
Viscosity, cps, 25°C	GB/T 2794-2013	1300	1800	3500	2100	2100	50	50
Density, g/cm ³ , 25°C	GB/T 15223-1994	1.02	1.03	1.18	1.18	1.18	0.98	0.98
Curing agent	with part B	8125T-B	8125T-B	8125-B	8125-B	8125-B		
Mix Ratio		A : B = 100 : (10±3)						
Viscosity after mixing, cps, 25°C	GB/T 10247-2008	1,000	1,000	2,300	1,500	1,200		

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		60	60	40	60	60
Operation time	GB/T 10247-2008	According to the different proportion of curing agent added quantity can achieve a range of different curing speed				
Surface hardening time, min	GB/T 10247-2008	70-180				
After cured						
Appearance	Visual inspection	colorless transparent ,elastomer	Matte white elastomer	White elastomer	White elastomer	Black elastomer
Hardness, SHORE A	GB/T 531-2008	21	21	28	15	12
Tensile strength,MPa	GB/T 528-2009	1.0	1.0	1.2	1.2	1.2
Shear strength,MPa	GB/T 7124-2008	0.3	0.3	0.7	0.7	0.7
Loss terms (1 MHz)	GB/T 1693-2007	< 0.008				
Volume resistivity, kV/mm,25℃	GB/T 1695-2005	≥20				
Volume resistivity, DC 500V , Ω·CM	GB/T 1692-92	1.1×10 ¹⁵				
Dielectric constants (1 MHz)	GB/T 1693-2007	< 3.00				
Use temperature range, ℃	GBT 20028-2005	- 50 ∞ 200				

PS:Operating time is with glue 110g to the test.

All data in the cured state 25 ℃, gum and 55% RH conditions after 7 days cure.

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Operation using the process

- 1) A, B components according to the ratio of 100: 10 weighing, mixing evenly, directly into the pot to protect the components (or modules). It is best to slowly follow the side of the wall, can reduce the generation of bubbles.
- 2) the potting of the components put away, let its own bubble, conditional customers can be in the potting before the vacuum mixture of vacuum degassing treatment. Directly at room temperature curing, usually within 1-6hr to achieve elasticity of the adhesive layer.
- 3) need to quantitative irrigation potting equipment, please consult my company marketing department.

Typical application

Application	LED Modules \ Lighting	Solar module junction box	Automotive electronics and power supply
Operation time, min	50	15	45
Cure time, hr	5	0.6	5

PACKAGING:

Part A: 20kg/plastic pail; Part B: 2kg or 5kg /plastic pot.

SHELF LIFE AND STORAGE

B components to be protected from light, heat, sealed (can be transported as non-dangerous goods and preservation);
Foreachpart, the shelf life is 1 year (at 25 ° C).

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, BEGINOR POLYMERS has an extensive Product Stewardship organization and a team of Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local BEGINOR POLYMERS representative.