

GB 662 Silicone Sealant For Automotive Lights

Fast cure sealant specially formulated for automotive lights and other high quality light applications

FEATURES

- Two-parts, neutral cure to form an elastomeric rubber
- Stable performance from -55°C to $+180^{\circ}\text{C}$
- Excellent adhesion to a wide range of materials such as metal, plastic, porcelain and glass
- Easy to operate, suitable for flow-line production
- Mixing ratio of 12:1 by weight of part A base to part B curing agent is recommended.
- GB patented product

PACKAGING

The Part A of GB 662 is available in 200L drums (net 240kg) or 20L plastic pails (net 25kg), Part B in 20L plastic pails (net 18kg) or cartridges (net 300ml).

COLOURS

GB 662 is available in black, grey and other customized colors.

BASIC USES

GB 662 Silicone Sealant for Automotive Light is designed for waterproofing bonding and sealing applications for automotive lights and other high quality lights.

TYPICAL PROPERTIES

These values are not intended for use in preparing specifications

Test Method	Property	Unit	Result
As supplied			
/	Appearance		Non-flowing paste
GB/T 13477 (ISO 7390)	Slump	mm	0
GB/T 13477 (ISO 7390)	Working Time (23°C , 50% RH)	min.	10
GB/T 13477 (ISO 7390)	Tack free time (23°C , 50% RH)	min.	30
Cured after 7 Days, at 23°C and 45%~55% RH			
/	Appearance		Elastic Rubber
GB/T 531 (ISO 7619)	Hardness	Shore A	30
GB/T 528 (ISO 37)	Tensile Strength	MPa	2.2
/	Elongation at break	%	400
/	Adhesion to PC, glass, PP(plasma treated)		Cohesive failure
GB/T 724 /	Shear strength(PC overlap PP)	MPa	1.5

* GB: Chinese National Standard

ISO: International Standardization Organization

STORAGE AND SHELF LIFE

GB 662 has a shelf life of 12 months from the date of manufacture when stored over 0°C ~ 27°C in original unopened containers.

HOW TO USE

Surface Preparation

All surfaces must be clean and dry. All stress, static electricity, dust, grease, etc. should be removed. The applicable solvents for cleaning includes alcohol, acetone etc.

Adhesion

- GB 662 has excellent adhesion to most substrates.
- Apply the sealant to prepared surfaces
- Cure time extends when
- Priming or plasma processing is necessary for the low surface energy substrates such as PTFE, PE, PMMA ect.

Primer

- For optimal adhesion, GB primer is recommended.
- Clean the substrate surface with solvents and then apply a thin coat of primer by dipping, brushing or spraying to form a thin layer of film
- Allow the primer to dry for 5~10 minutes. Apply the silicone sealant onto the primer once the substrate surface a little sticky to finger when touched.

Site Testing

- Stir part B to ensure the homogeneity of part
- **Butterfly Test**

The butterfly test must be performed every time the pump is started up, including start-ups that occur after extended breaks. The purpose of this test is to check for an adequate mix of base and curing agent components

- **Snap Time Test**

Once full mix of the two-part sealant (as confirmed by the butterfly test) is achieved, a snap-time test should be performed. This test must be performed on a daily basis. Snap time is an indicator test that can vary from technician to technician. The snap-time test relates the base-to-catalyst mix ratio to the cure rate of the sealant, and provides an indication of working time and deep section cure

Adhesion Test

Adhesion test is to check if sealant can adhere well to

substrate or not. Adhesion test should be conducted to each kind of substrate. When change substrate materials, users should send the substrates to GB to run adhesion test by GB technical people.

LIMITATIONS

GB 662 should not be applied

- In totally confined spaces or in continuous water immersion
- When substrate surface temperature is below 4°C or over 50°C
- To fog light

SAFETY INFORMATION

- Should uncured silicone sealant contact with eyes, rinse thoroughly with a lot of water and seek medical treatment if irritation persists.
- Keep the uncured silicone sealant away from children.
- Good ventilation is necessary for work and cure places.

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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