

Technical Data Sheet

Platinum-cured Silicone Rubber

1. DESCRIPTION

BBN A8 series platinum-cured silicone is also called addition cured silicone. It is a kind of liquid RTV-2 mould making silicone rubber with two parts. Part A is the silicone rubber base and part B is the curing agent. BBN A8 series silicone rubber can capture the finest details and are suitable for a variety of industrial, art and food related applications. It is ideally to make molds for reproducing prototypes, sculptures, architectural decorating products, plaster products, GRC, GFRC, GRG, Jesmonite, concrete products, candles, soaps, low melt alloys, urethane, epoxy, polyester resins, edibles and more.



2. APPEARANCE

Part A: Non-toxic and odorless liquid in translucent color.

Part B: Non-toxic and odorless liquid in translucent color.

ATT: We do any curing time and any color as you requirements

3. FEATURES

- ☆ Platinum cured (environmental, odorless and nontoxic)
- ☆ Excellent fluidity, easy to operate & de-mould
- ☆ Good tear and tensile strength
- ☆ Excellent resistance to weather, temperature, acid and alkali
- ☆ Nil shrinkage rate ($\leq 0.1\%$)
- ☆ Durable and high duplication times

☆ High resistance to high temperature & aging (resist -60 to 250°C)

4. PARAMETERS

Model No.	A805	A810	A815	A820	A825	A830	A835	A840
Mixing Ratio	1:1/10:1	1:1/10:1	1:1/10:1	1:1/10:1	1:1/10:1	1:1/10:1	1:1/10:1	1:1/10:1
Mixed Color	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent
Hardness (Shore A)	5±2	10±2	15±2	20±2	25±2	30±2	35±2	40±2
Viscosity (mPa·s)	3,000 ±1,000	3,000 ±1,000	3,000 ±1,000	4,000 ±1,000	4,000 ±1,000	5,000 ±1,000	5,000 ±1,000	6,000 ±1,000
Working Time (at 25 C, MINS)	30~40	30~40	30~40	30~40	30~40	30~40	30~40	30~40
Curing Time (at 25 C, HRS)	4~6	4~6	4~6	4~6	4~6	4~6	4~6	4~6
Tensile strength (Mpa)	≥2.2	≥2.2	≥2.3	≥2.5	≥3.5	≥4	≥4	≥4
Tear strength (KN/m)	≥10	≥13	≥15	≥18	≥20	≥22	≥19	≥18
Elongation (%)	≥550	≥500	≥500	≥500	≥450	≥400	≥300	≥250

5. HOW TO USE

1) Mixing

Using a gram scale, dispense the parts A and B according to the ratio 1A:1B or 10A:1B into a container and mixing thoroughly. Vacuum degassing would be helpful to eliminate any entrapped air in liquid rubber.

2) Pouring

Pour the silicone rubber in a single spot at the lowest point of the model frame, let the rubber seek its level up and over the model. The flow ability of products will decrease after mixing parts A and B over time, pouring the material as soon as possible. Brushing can be proceeded by adding thickening agent for vertical surface application. Different viscosity can be attained by varying the amount of thickening.

3) Curing

BBN A8 series silicone rubber will cure at room temperature(25 °C). High temperature will reduce cure time, low temperature will increase the cure time or result in uncured.

6. NOTICES

1) Read the material safety data sheet(MSDS) before use.



2) Keep Out Of Reach Of Children.

3) Use only with adequate ventilation and avoid contact with eyes. In case of eye contact flush thoroughly with water. If irritation persists gets medical attention.

4) Please avoid the platinum silicone rubber contacting or mixing with following materials in case of cure inhibition.

☆ Liquid condensation silicone (condensation silicone not completely cured or organic tin compounds) ;

☆ N, P, S organic compounds;

☆ Ionic compounds of elements such as Sn, Pb, Hg, As, etc;

☆ Contains alkynes and polyvinyl compounds.

7. PACKAGE

1) General size packages: 20kg/pail, 25kg/pail, 200kg/pail

8. MOLD PERFORMANCE

The physical life (duplication times) of the mold depends on how you use it (materials cast, frequency, etc). Casting abrasive materials such as concrete can quickly erode mold detail, while casting non-abrasive materials (wax) will not affect mold detail. Before storing, the mold should be cleaned with a soap solution and wiped full dry.

9. TRANSPORTATION AND STORAGE

1) Platinum cured silicone rubber is non-toxic, odorless, non-flammable, noncorrosive harm, can press the non-dangerous goods and shipping.

2) Shelf life would be ten(10) months when stored under dry and cool place by original package under 25°C well preserved.