

Technical Data Sheet

RTV-2 Tin-cured Silicone Rubber

1. DESCRIPTION

BBN C8 series tin-cured silicone is also called condensation cured silicone. It is a kind of liquid RTV-2 mould making silicone rubber with two parts. Part A is the silicone rubber and part B is the curing agent. BBN C8 series silicone rubber can capture the finest details and are suitable for a variety of industrial and art related applications. It is ideally to make molds for reproducing sculptures, plaster products, architectural decorating products, GRC, GFRC, GRG, Jesmonite, candles, soaps, low melt alloys, urethane, epoxy, polyester resins and more.



2. APPEARANCE

Part A: Silicone rubber is white liquid.

Part B: Catalyst is transparent non-toxic and odorless liquid.

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

3. FEATURES

- ☆ Low hardness, soft to make mould of fine products with detailed patterns and easy to de-mould
- ☆ Excellent fluidity, easy to operate
- ☆ Good tear and tensile strength
- ☆ Excellent resistance to weather, temperature, acid and alkali
- ☆ Not oily, low shrinkage
- ☆ Durable and high duplication times

4. PARAMETERS

Model No.	C810	C815	C820	C825	C830	C835	C840	C845
Mixing Ratio	100:3	100:3	100:3	100:3	100:3	100:3	100:3	100:3
Color	White	White	White	White	White	White	White	White
Hardness (Shore A)	10±2	15±2	20±2	25±2	30±2	35±2	40±2	45±2
Viscosity (mPa·s)	17,000 ±2,000	19,000 ±2,000	23,000 ±2,000	25,000 ±2,000	25,000 ±2,000	25,000 ±2,000	26,000 ±2,000	26,000 ±2,000
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)	8~10	8~10	8~10	8~10	8~10	8~10	8~10	8~10
Tensile strength (Mpa)	≥2.2	≥2.2	≥2.3	≥2.5	≥3.5	≥4	≥4	≥4
Tear strength (KN/m)	≥12	≥16	≥25	≥25	≥25	≥21	≥19	≥18
Elongation (%)	≥500	≥500	≥500	≥450	≥350	≥310	≥310	≥280

5. HOW TO USE

1) Mixing

Using a gram scale, dispense the parts A and B according to the ratio 100A:3B into a container and mixing thoroughly. After mixing parts A and B, vacuum degassing is recommended 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 flowability 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 viscosities can be attained by varying the amount of thickening.

3) Curing

BBN C8 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. NOTICE

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 and skin. In case of eye and skin contact flush thoroughly with water. If irritation persists gets medical attention.



7. PACKAGE

1) General size packages: 25kg/pail, 200kg/pail. 3% catalyst will be freely offered.

8. MOLD PERFORMANCE AND STORAGE

1) 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.

2) Shelf life would be twelve(12) months when stored under dry and cool place by original unopened package under 25°C well preserved.