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Technical Data Sheet (TDS)

Doc No.: SILICONE-TDS-003
Issue Date: 2023-05-28
Revision: 1.0

Tin Cured Silicone Rubber

Description

Condensation-cure mold silicone is a type of condensation-cure liquid silicone rubber. Component A is a free-flowing liquid, while Component B is a curing agent (vulcanizing agent). When mixed, they rapidly form a solid mold, offering simple operation.

Features

1. Excellent flowability, easy air release, simple casting, and convenient demolding.

2. Fast room-temperature curing.

3. High tensile and tear strength, with low linear shrinkage (≤0.3%).

4. High replication capability (e.g., up to 800–1000 cycles for plaster products).

5. Good weather resistance, heat resistance, acid and alkali resistance, and aging resistance.

Applications

1. Mold production for plaster, GRC, cement, resin, and similar products.

2. Artificial stone molding and candle casting processes.

3. Mold making for architectural decoration products (e.g., cornices, Roman columns, railings, ceilings, bases, fountains, fireplaces, wall decorations, planters, European-style furniture, furniture ornaments).

4. Mold fabrication for unsaturated resin crafts, epoxy resin crafts, polyresin crafts, and polyester resin.

5. Handmade soap and candle crafts, stationery gifts, and other craft industries.

6. Mold production for cast statues, Buddha figures, Christmas decorations, sculptures, character models, etc.

7. Custom formulations available based on specific customer product requirements.

9 Series Tin-Curing Mold Silicone Parameters (25°C)

Model	915	920	925	930	935	940
Color	White/Translucent					
Hardness(Shore A°)	15±2	20±2	25±2	30±2	33±2	40±2
Mix Ratio (A:B)	100:2 or 100:3					
Viscosity (mPa.s)	1300±1000	17000±2000	25000±2000	27000±2000	25000±2000	15000±2000
Tensile Strength (Mpa)	3.2	4.0	4.2	4.5	4	3.5
Tear Strength (kN/m)	16±2	19±2	24±2	26±2	25±2	21±2
Elongation (%)	420	530	480	480	450	250
Density (g/cm³)	1.08	1.08	1.08	1.08	1.09	1.09
Operation Time (min)	30-50	30-50	30-40	30-40	30-40	30-50
Vulcanization Time (h)	4-5	4-5	3-4	3-4	3-4	4-5
Line Shrinkage Not Rate (%)	≤0.3					
Note: The color, viscosity, operation time and hardness after curing in the parameter table can be adjusted according to customer's demand.						

Precautions

- Store the adhesive compound in sealed containers. Once mixed, use the compound within the specified timeframe to avoid waste.

- Do not allow the adhesive compound to come into contact with nitrogen (N), sulfur (S), phosphorus (P), tin (Sn), lead (Pb), alcohols, water, etc., such as organotin compounds, silicone rubber sulfur containing organotin, sulfides, sulfur-containing rubber, amine compounds, or amine-containing materials. It must also not come into contact with containers or molds previously used for condensation-cure rubber. Otherwise, the addition-cure liquid silicone rubber may become sticky, cure incompletely, or fail to cure altogether.

Packaging

A and B are 1:1 ratio of conventional packaging:

Part A 25kg/ barrel, 200kg/ barrel. Part B is 1kg/ barrel.

Part A 1kg/ barrel, Part B is 0.03 kg/ barrel.

We support custom silicone colors, packaging, and labels; please feel free to

inquire.