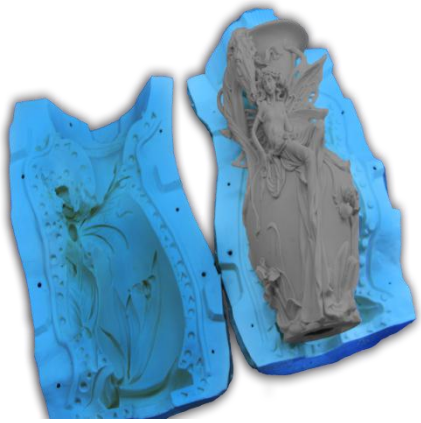
1. Mold making Silicone Rubber

1.1 Condensation Molding Silicone

Product Description:

Condensation Molding Silicone is generally named as two-parts silicone rubber that is vulcanized at room temperature, and used for model designing work of all kinds of products with simple or intricate patterns, such as artificial stones, craft stones, gypsum crafts, GRC/GFRC, GRG, fireplaces, fountains, ornaments, resin crafts, resin marble works, shoe soles, Art sculptures, decorations, candles, soaps, PU, furniture moldings, etc. With good resistance to deformation, heat, acid, alkali and expansion, finished silicone molds have very good performance in reproduction process and every fine detail on designing models.



Appearance:

Part A: **Silicone rubber** is a white liquid
Part B: **Catalyst** is a non-toxic and odorless liquid, with transparent color.
ATT: We can provide **fast/medium/slow** catalyst of for hot, warm or cold season.

Features:

- ✧ Amazing fluidity and easy to operate
- ✧ Complex design available
- ✧ Not Oily
- ✧ Stable quality, non-toxic and odorless catalyst provided
- ✧ Easy de-molding
- ✧ Excellent tension and tear strength
- ✧ High performance in duplication
- ✧ Shrinkage is almost zero (below 0.2)
- ✧ Excellent resistance to weather, temperature, aging, acid and aging-proofing.

Operation Methods:

Condensation molding silicone rubber is a kind of flowing liquid, and it consists of two components,
part A is a flow-able liquid silicone rubber, part B is the curing agent.

1. Firstly, after your previous work of dealing with the original model, take some liquid silicone rubber, add 3% curing agent of the amount of silicon and mix them evenly.
2. Then after vacuum pumping the mixture, you can pour it into the mold frame.
3. The silicone mold will be cured in 3 to 5 hours.

Technical Data:

Notes: 1.The data are based on the operation under room temperature of 25℃.

2. The data-sheet of viscosity, hardness, working time, curing time can be adjusted according to your requirement.

Model Code: *S805, S810, S815, S820 , S825, S830, S835, S840*

Model Code	Hardness Shore A	Mix Ratio	Color	Pot life 25 °C (min)	Curing time (hrs)	Viscosity mPa·s	Tear Strength KN/m	Tensile Strength MPa	Elongation %	Shrinkage %
S805	5±2	100:3	White or translucent	20~40	3- 5	5000± 2000	≥12	≥1.6	≥500	≤0.2
S810	10±2	100:3		20~40	3- 5	8000± 2000	≥18	≥3.2	≥600	
S815	15±2	100:3		20~40	3- 5	11000± 3000	≥25	≥3.8	≥580	
S820	20±2	100:3		20-40	3- 5	11000± 3000	≥26	≥4.2	≥500	
S825	25±2	100:3		20~40	3- 5	16000± 3000	≥28	≥4.8	≥500	
S830	30±2	100:3		20~40	3- 5	21000± 3000	≥28	≥4.8	≥450	
S835	35±2	100:3		20~40	3- 5	18000± 3000	≥25	≥4.2	≥400	
S840	40±2	100:3		20~40	3- 5	14000± 3000	≥23	≥4.0	≥300	