



Silicone Thinner

Silicone Rubber Thinning Fluid

Silicone Thinner is a non-reactive silicone fluid that will lower the mixed viscosity of tin cure (condensation) or platinum cure (addition) silicone rubber products.

Silicone Thinner offers the following advantages:

- ✓ A lower mixed viscosity (A+B) means that the rubber will de-air faster
- ✓ when vacuuming.
- ✓ Mixed rubber (A+B) will flow better over intricate model detail.
- ✓ Silicone Thinner will lower the ultimate shore hardness (durometer) of
- ✓ cured silicone rubber.
- ✓ Pot life (working time) is increased in proportion to the amount of Silicone Thinner used.

Disadvantage: Ultimate tear and tensile strength are reduced in proportion to the amount of Silicone Thinner added, however knotty tear properties of the Mold Max™ series rubbers are unaffected

The following test data is offered as an example of the effects of Silicone Thinner on Mold Max® 30 silicone rubber (your results may vary):

| Value | Mold Max® 30 0 % Silicone Thinner* | Mold Max® 30 5 % Silicone Thinner* | Mold Max® 30 10 % Silicone Thinner* |
|---|---------------------------------------|---------------------------------------|--|
| Mixed Viscosity (A+B) | 25,000 cps | 19,000 cps | 13,800 cps |
| Shore Hardness (after 7 days) | 30 A | 26 A | 23 A |
| Tensile Strength (after 7 days) | 400 psi ** | 350 psi | 330 psi |
| Tear Strength (Die B) (after 7 days) | 130 pli *** | 115 pli | 110 pli |

Pli = pounds per linear inch *Psi = pounds per square inch

Directions: An accurate gram scale must be used. *Silicone Thinner is added as a percentage of the Part A rubber base component. Weigh out and pre-mix required amount of Silicone Thinner with Part A of silicone rubber before adding Part B catalyst.

Mix all components thoroughly and vacuum as directed on mold rubber technical bulletin. Materials should be stored and used in a warm environment (72° F / 22° C). This material has a limited shelf life and should be used as soon as possible. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk.

Because no two applications are quite the same, a small test application to determine suitability for your project is recommended if performance of this material is in question.

Important: The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe upon a patent. User shall determine the suitability of the product for the intended application and assume all risk and liability whatsoever in connection therewith.