# ELKEM CONDENSATION-CURE SILICONE RUBBER

***Elkem RTV Silicone Rubber*** *is used where a flexible, self-releasing mold material is required. These silicones are excellent for rapid prototype tooling, polyurethane casting, and general silicone mold-making. Condensation-cure silicones use a tin-based catalyst. Addition-cure silicones with a platinum-based catalyst are also available.*

*When cured, these rubbers may inhibit the curing of urethanes when poured into them

## Specifications

| | Hardness (Shore A) | Mixed Viscosity (cps) | Mix Ratio (by wt.) Base:Catalyst | Gel Time (min.) @ 72°F | Demold Time (hr.) | Elongation (%) | Tear Strength (ppi) | Specific Gravity | Volumetric Yield (in.³/lb.) |
|---|---|---|---|---|---|---|---|---|---|
| **GP-25/Hi-Pro Green** | 25 | 50,000 | 10:1 | 210 | 16 | 380 | 150 | 1.2 | 23.1 |
| **GP-25/Hi-Pro Blue** | 26 | 50,000 | 10:1 | 90 | 6 | 370 | 115 | 1.16 | 23.9 |
| **V-1062/Hi-Pro Green** | 14 | 35,000 | 10:1 | 270 | 16 | 540 | 135 | 1.1 | 25.2 |
| **V-1062/Hi-Pro Blue** | 15 | 32,000 | 10:1 | 90 | 8 | 500 | 110 | 1.11 | 24.9 |
| **V-1065/Hi-Pro Green** | 25 | 45,000 | 10:1 | 300 | 16 | 480 | 140 | 1.11 | 24.9 |
| **V-1065/Hi-Pro Blue** | 30 | 43,000 | 10:1 | 120 | 6 | 430 | 100 | 1.11 | 24.9 |
| **V-1067/1067B** | 38 | 70,000 | 100:2.5 | 30-40 | 16 | 390 | 70 | 1.12 | 24.7 |
| **V-1067/Hi-Pro Blue** | 37 | 50,000 | 10:1 | 60 | 6-8 | 250 | 40 | 1.12 | 24.7 |
| **V-1068/Hi-Pro Clear** | 13 | 35,000 | 10:1 | 270 | 16 | 560 | 120 | 1.10 | 25.2 |
| **ASTM** | D-2240 | D-2393 | – | – | – | D-412 | D-624 | – | – |

### Product Features

- Includes a tin-based catalyst, creating a more inhibition-resistant material*
- Softer cured hardness & lower durometer than addition-cured materials
- Excellent for molds with deep undercuts
- Low shrinkage, though not as low as platinum-catalyzed rubber
- Heat resistance up to 350° F intermittently

*For part numbers, technical documents, and ordering, visit our website at* ***www.FreemanSupply.com.***

## GP-25 Silicone Rubber

- 25 or 26 Shore A
- 50,000 cps Viscosity
- Green or Blue

The economical GP-25 features an excellent mold life when casting polyester or plaster parts. The two catalyst options, Hi-Pro Green or Hi-Pro Blue, offer multiple demold times.

## V-1062 Silicone Rubber

- 14 or 15 Shore A
- 35,000 or 32,000 cps Viscosity
- Green or Blue

V-1062 is high performance and room-temperature curing. The base may be used with the Hi-Pro Green Catalyst at a ratio of 10:1 (base to catalyst) to produce a low shrink rubber with a 16 hour demold time. The Hi-Pro Blue catalyst at a ratio of 10:1 (base to catalyst) allows demolding in 6 hours. Both rubbers are commonly used for production of polyester figurines, giftware casting, and general purpose and production molding applications.

## V-1065 Silicone Rubber

- 25 or 30 Shore A
- 45,000 or 43,000 cps Viscosity
- Green or Blue

V-1065 is a high-performance silicone commonly used for production of polyester figurines, giftware casting, and production molding application. This popular rubber cures at room temperature with two catalyst options. Use the Hi-Pro Green Catalyst at a 10:1 ratio to produce a low shrink, 25 Shore A rubber with a 16 hour demold time. Use the Hi-Pro Blue catalyst at a 10:1 ratio for a 6 hour demold time.

## V-1067 Silicone Rubber

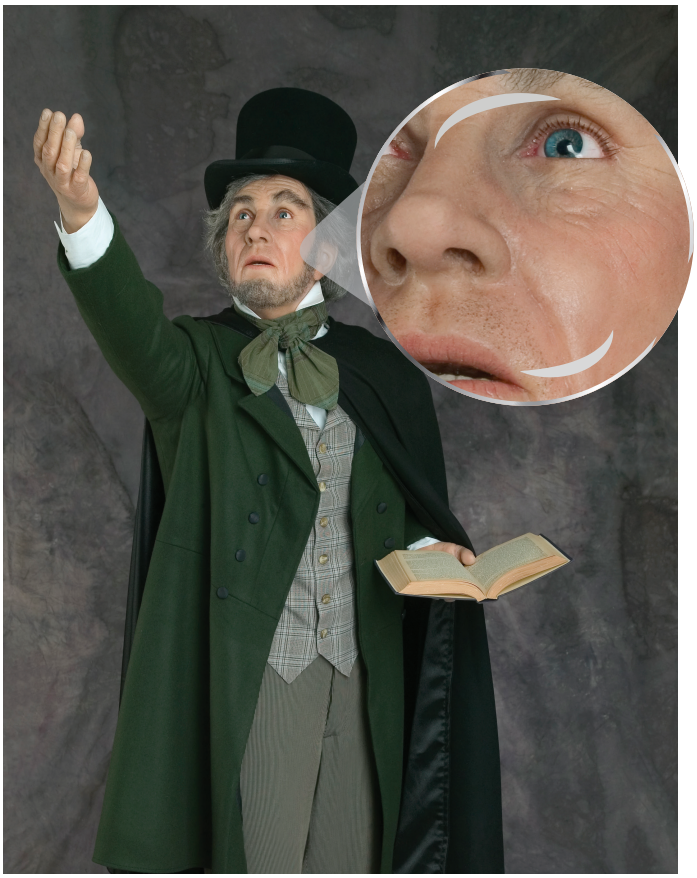
- 37 or 38 Shore A
- 70,000 cps Viscosity
- Blue or Clear

V-1067 is a high-performance silicone ideal for general moldmaking applications. At room temperature, the V-1067B catalyst at a 100:2.5 ratio creates a low-shrink, 37 or 38 Shore A rubber with a 16 hour demold. The Hi-Pro Blue catalyst, at a 10:1 ratio, demolds within 6-8 hours.

## V-1068 Special Effects Silicone Rubber

- 13 Shore A
- 35,000 cps Viscosity
- Translucent

V-1068 is a translucent silicone rubber that may be easily pigmented for making robotic and animatronic skins, prosthetics, and props for theme parks and the film industry.



*V-1068 can be used in the theatre or film industry for special effects or props. Special thanks to LifeFormations Inc. for use of this photo.*

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