



Silicones, Inc.

P.O. Box 363
High Point, NC 27261
Tel: 336-886-5018
Fax: 336-886-7122
www.silicones-inc.com

RTV-2 Silicones Since 1974

GI-1000

Product Information

General Information

GI-1000 is an extremely high tear strength, tin-catalyzed RTV-2 silicone rubber, which was designed for casting polyester parts. **GI-1000** is not sensitive to inhibition, meaning it will cure at room temperature over virtually any surface. It is easy to mix and de-air, and will cure with only a slight degree of shrinkage. The speed at which the rubber hardens can be accelerated with special activators. Condensation cure two-component silicone rubbers are excellent for most general mold making and prototype applications. They are excellent for casting waxes, gypsum, epoxies and other plastics. **GI-1000** is extremely useful for those applications where superior mechanical properties are required.

Typical Properties

Uncatalyzed Compound

| | | |
|---------------------------|----------------------|-----------------------|
| Color | Base: White | Activator: Blue |
| Viscosity (cps) | Base: 50,000-70,000 | Activator: 300-400 |
| Mixing Ratio (B/A) | By weight: 100 / 10 | By volume: 100 / 11.1 |
| Viscosity (cps) | Mixed: 30,000-45,000 | |
| Working Time | 1.5 to 2.5 hours | |
| Cure Time | 16-18 hours | |
| Shelf Life | 6 months | |

Vulcanized (cured) Properties (7 days @ 70° F / 50% relative humidity)

| | | |
|--|----------------------|------------|
| Shore A Hardness (±4) | One day: 28 | 7 Days: 32 |
| Tear Resistance (ASTM D624) | 120 ± 10 ppi | |
| Tensile Strength (ASTM D412) | 525 ± 25 psi | |
| Elongation (ASTM D412) | 300 ± 25 % | |
| Service Temperature (° F) | -60 to 350 | |
| Shrinkage | 0.10 % | |
| Specific Gravity | 1.09 | |
| Coverage (in³ / lb) | 25.4 | |
| Dielectric Strength (volts/mil) | 500 | |
| Dielectric Constant (@ 100 HZ) | 3.3 | |
| Dissipation Factor (@ 100 HZ) | 0.019 | |
| Volume Resistivity (ohms/cm) | 1 x 10 ¹⁵ | |

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