



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: Clear	Activator: Clear
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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