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RTV-2 Silicones Since 1974

GI-1100

Product Information

General Information

GI-1100 is a high tear strength, tin-catalyzed RTV-2 silicone rubber, which was designed for casting polyester parts. **GI-1100** is especially good for molds with deep undercuts and for molds that require flexing for part removal. **GI-1100** 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-1100** is extremely useful for those applications where superior elongation and medium durometer are required.

Typical Properties

Uncatalyzed Compound

Color	Base: Off-white	Activator: Blue
Viscosity (cps)	Base: 120,000-140,000	Activator: 300-400
Mixing Ratio (B/A)	By weight: 100 / 10	By volume: 100 / 11
Viscosity (cps)	Mixed: 65,000-80,000	
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: 22	7 Days: 25
Tear Resistance (ASTM D624)	140 \pm 15 ppi	
Tensile Strength (ASTM D412)	525 \pm 25 psi	
Elongation (ASTM D412)	400 \pm 25 %	
Service Temperature ($^{\circ}$ F)	-60 to 340	
Shrinkage	0.10 %	
Specific Gravity	1.07	
Coverage (in³ / lb)	25.9	
Dielectric Strength (volts/mil)	n.a.	
Dielectric Constant (@ 100 HZ)	n.a.	
Dissipation Factor (@ 100 HZ)	n.a.	
Volume Resistivity (ohms/cm)	n.a.	

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