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RTV-2 Silicones Since 1974

GI-650

Product Information

General Information

GI-650 is a high tear strength, tin-catalyzed RTV-2 silicone rubber, which was designed for casting polyester parts. **GI-650** 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-650** is extremely useful for those applications where superior mechanical properties are required.

Typical Properties

Uncatalyzed Compound

Color	Base: White	Activator: Blue
Viscosity (cps)	Base: 40,000-60,000	Activator: 300-400
Mixing Ratio (B/A)	By weight: 100 / 10	By volume: 100 / 11.1
Viscosity (cps)	Mixed: 20,000-30,000	
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: 23	7 Days: 27
Tear Resistance (ASTM D624)	100 ± 10 ppi	
Tensile Strength (ASTM D412)	500 ± 25 psi	
Elongation (ASTM D412)	325 ± 25 %	
Service Temperature (° F)	-60 to 340	
Shrinkage	0.10 %	
Specific Gravity	1.08	
Coverage (in³ / lb)	25.8	
Dielectric Strength (volts/mil)	<i>n.a.</i>	
Dielectric Constant (@ 100 HZ)	<i>n.a.</i>	
Dissipation Factor (@ 100 HZ)	<i>n.a.</i>	
Volume Resistivity (ohms/cm)	<i>n.a.</i>	

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