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Product Information

GI-320 Silicone Rubber

GI-320 RTV silicone rubber is a red, two-component, condensation reaction, tin catalyzed system that cures at room temperature. As a tin catalyzed rubber compound, it is not sensitive to cure inhibition. It is highly filled with red iron oxide to enhance its stability under high temperatures. It has excellent chemical resistance and the highest heat resistance in this line of materials.

Mixing Instructions

Mix 10 parts by weight of GI-320 base with 1 part by weight of GI-320 activator in a container that will hold about four times the volume of the rubber being mixed. Stir thoroughly either by hand or by mechanical means. Since both base and activator are nearly colorless, care must be taken to ensure that they are completely blended before deaeration. Immediately after mixing, place the container in a vacuum chamber capable of 28 inches of mercury vacuum. The rubber will expand to triple or quadruple its original volume as it is being deaired. After the rubber collapses, maintain the vacuum for an additional two minutes and release. Carefully pour the catalyzed silicone rubber over the released pattern.

Typical Properties

Color, base	Beige
Color, activator	Red
Mixed viscosity (cps)	34,000 ± 3,000
Working time (hours)	2 to 3
Cure time (hours)	16-18
Specific Gravity	1.56
Shore A hardness	
1 day	65
7 day	75
Tear resistance (ppi)	20 + 5
Tensile strength (psi)	650 + 50
Elongation (%)	70 + 10
Shrinkage (%)	0.1
Service Temperature, °F	-60 to 575