## RTV-2 GI-1000

Silicone Rubber, RTV-2

Silicones, Inc.

## Message:

GI-1000 is an extrememly 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.

General Information				
Features	Good Colorability			
	Good Tear Strength			
	Low Shrinkage			
Uses	Molds/Dies/Tools			
Forms	Liquid			
Physical	Nominal Value	Unit		
Specific Gravity	1.09	g/cm³		
Shrinkage - Cured	0.10	%		
Service Temperature - Cured	-51 to 177	°C		
Coverage - Cured	0.918	cm³/g		
Thermoset	Nominal Value	Unit	Test Method	
	Nominai value	Unit	l est ivietnod	
Thermoset Components				
	Mix Ratio by Weight: 1.0			
	Mix Ratio by Weight: 1.0			
	Mix Ratio by Weight: 1.0			
Hardener				
Hardener	Mix Ratio by Volume: 11			
Hardener				
Hardener	Mix Ratio by Volume: 11			
Hardener Resin	Mix Ratio by Volume: 11			
	Mix Ratio by Volume: 11 Mix Ratio by Weight: 10	wk		
Resin	Mix Ratio by Volume: 11  Mix Ratio by Weight: 10  Mix Ratio by Volume: 100	wk cP		
Resin Shelf Life	Mix Ratio by Volume: 11  Mix Ratio by Weight: 10  Mix Ratio by Volume: 100  26		Test Method	
Resin Shelf Life Thermoset Mix Viscosity	Mix Ratio by Volume: 11  Mix Ratio by Weight: 10  Mix Ratio by Volume: 100  26  30000 to 45000	сР	Test Method	
Resin Shelf Life Thermoset Mix Viscosity Uncured Properties	Mix Ratio by Volume: 11  Mix Ratio by Weight: 10  Mix Ratio by Volume: 100  26  30000 to 45000	сР	Test Method	
Resin Shelf Life Thermoset Mix Viscosity Uncured Properties Color	Mix Ratio by Volume: 11  Mix Ratio by Weight: 10  Mix Ratio by Volume: 100  26  30000 to 45000  Nominal Value	сР	Test Method	
Resin Shelf Life Thermoset Mix Viscosity Uncured Properties Color1	Mix Ratio by Volume: 11  Mix Ratio by Weight: 10  Mix Ratio by Volume: 100  26  30000 to 45000  Nominal Value  Blue	сР	Test Method	
Resin Shelf Life Thermoset Mix Viscosity Uncured Properties Color 1 2	Mix Ratio by Volume: 11  Mix Ratio by Weight: 10  Mix Ratio by Volume: 100  26  30000 to 45000  Nominal Value  Blue	сР	Test Method	

Curing Time	16 to 18	hr	
Pot Life	90 to 150	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness			
Shore A <sup>5</sup>	24 to 32		
Shore A <sup>6</sup>	28 to 36		
Tensile Strength	3.45 to 3.62	MPa	ASTM D412
Tensile Elongation at Break	280 to 330	%	ASTM D412
Tear Strength	19.3 to 22.8	kN/m	ASTM D624
Electric Strength	20	kV/mm	
Relative Permittivity (100 Hz)	3.30		
Volume Resistivity	1.0E+15	ohms·cm	
Dissipation Factor (100 Hz)	0.019		
NOTE			
1.	Activator		
2.	Base		
3.	Activator		
4.	Base		
5.	1 Day		
6.	7 Days		

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