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**
Thermoset Components			
	Mix Ratio by Weight: 1.0		
Hardener	Mix Ratio by Volume: 11		
	Mix Ratio by Weight: 10		
Resin	Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity	30000 to 45000	cP	
Uncured Properties	**Nominal Value**	**Unit**	**Test Method**
Color			
-- [1]	Blue		
-- [2]	White		
Viscosity			
-- [3]	0.30 to 0.40	Pa·s	
-- [4]	50 to 70	Pa·s	

Curing Time	16 to 18	hr	
Pot Life	90 to 150	min	
Cured Properties	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			
Shore A [5]	24 to 32		
Shore A [6]	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

Recommended distributors for this material

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