

# RTV-2 GI-311B

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

GI-300 series RTV silicone rubbers are two-component, tin-catalyzed systems that cure at room temperature. They are versatile products that are excellent for electrical potting and encapsulation. They can also be used for prototype or production molds to cast polyester, polyurethane or epoxy parts where flexing is not required. They are low viscosity compounds with a variety of hardnesses. The GI-300 series rubbers are not sensitive to inhibition, meaning they will cure at room temperature over virtually any surface. The speed at which the rubbers harden can be accelerated with special activators. The GI-300 series rubbers are especially useful in those applications where outstanding heat resistance and chemical resistance are required.

General Information			
Features	Good Chemical Resistance		
	High Heat Resistance		
	Low Shrinkage		
	Low Viscosity		
Uses	Electrical Parts		
	Tooling		
Forms	Liquid		
Processing Method	Embedment/Embedding		
	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	
Specific Gravity	1.14	g/cm <sup>3</sup>	
Shrinkage - Cured	0.25	%	
Service Temperature - Cured	-51 to 218	°C	
Coverage - Cured	0.878	cm <sup>3</sup> /g	
Thermal	Nominal Value	Unit	
CLTE - Flow	1.1E-3	cm/cm/°C	
Thermal Conductivity	0.21	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Mix Ratio by Weight: 1.0			
Hardener	Mix Ratio by Volume: 12		

Mix Ratio by Weight: 10

Resin	Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity <sup>1</sup>	3000 to 13000	cP	
Uncured Properties	Nominal Value	Unit	Test Method
Color <sup>2</sup>	Beige		
Viscosity <sup>3</sup>	9.0 to 19	Pa·s	
Curing Time	16 to 18	hr	
Pot Life	60 to 120	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness			
Shore A <sup>4</sup>	38 to 46		
Shore A <sup>5</sup>	40 to 48		
Tensile Strength	2.24	MPa	ASTM D412
Tensile Elongation at Break	150	%	ASTM D412
Tear Strength	3.50	kN/m	ASTM D624
Arc Resistance	90.0	sec	
Electric Strength	23	kV/mm	
Relative Permittivity (100 Hz)	3.00		
Volume Resistivity	1.0E+13	ohms·cm	
Dissipation Factor (100 Hz)	0.010		
NOTE			
1.	Mixed		
2.	Base		
3.	Base		
4.	1 Day		
5.	7 Days		

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