



# Silicones, Inc.

## *Si-mplication*

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### *RTV-2 Silicones Since 1974    Electrical Potting / Encapsulation*

RTV-2 silicones are widely used in electronics to provide mechanical and environmental protection of electronic components, specifically vibrations, shock, moisture, chemicals, ultra violet and other risks. They provide insulation, high temperature and aging resistance over a wide temperature range.

<b>GI-300 Series/Tin Catalyzed</b>	300	311	312	320	360	380
Color	blue	blue	blue	red	blue	blue
Viscosity (mixed, cps $\pm$ 5000)	12,000	10,000	25,000	43,000	50,000	25,000
Work Time (hours)	1.5	1.5	1.5	1.0	1.5	1.5
Cure Time (hours)	18	18	18	18	18	18
Shore A (+ 4)	50	44	60	50	64	74
Tensile (psi $\pm$ 50)	600	325	450	600	650	650
Tear (ppi $\pm$ 5)	25	20	25	30	20	20
Elongation (% $\pm$ 15)	160	150	100	125	100	70
Specific Gravity	1.35	1.14	1.45	1.41	1.49	1.56
Arc Resistance (seconds)	125	90	125	125	125	125
Dielectric Strength (volts/mil)	575	575	575	575	575	575
Dielectric Constant (@100 Hz)	3.2	3.0	3.7	3.8	3.7	3.7
Dissipation Factor (100 Hz)	0.002	0.001	0.003	0.005	0.003	0.003
Volume Resistivity (ohms/cm)	$1 \times 10^{13}$	$1 \times 10^{13}$	$1 \times 10^{13}$	$4 \times 10^{13}$	$1 \times 10^{13}$	$1 \times 10^{13}$
Thermal Conductivity (cal/cm <sup>2</sup> /°C/sec/cm)	$6 \times 10^{-4}$	$5 \times 10^{-4}$	$7 \times 10^{-4}$	$7 \times 10^{-4}$	$7 \times 10^{-4}$	$7 \times 10^{-4}$
Linear Coefficient of Thermal Expansion (cm/cm/°C)	$9 \times 10^{-4}$	$11 \times 10^{-4}$	$10 \times 10^{-4}$	$10 \times 10^{-4}$	$10 \times 10^{-4}$	$10 \times 10^{-4}$

### **P-Series Platinum Catalyzed**

	P:17		P-4		P-429	
	1:1	10:1	10:1	10:1	1:1	
Color	Gray	Pink		Clear	Clear	
Viscosity (cps)	25,000	20,000		5000	5000	
Work Time (hours)	1.5	15		2	3	
Cure Time (hours)	16	16		16	20	
Shore A (+ 4)	50	50		40	gel	
Tensile (psi $\pm$ 30)	495	495		700	<100	
Tear (ppi $\pm$ 3)	27	27		11	gel	
Elongation (% + 20)	150	150		150	>500	
Specific Gravity	1.30	1.28		1.01	1.00	
Dielctric Strength (volts/ml)	450	450		525	500	
Dielectric Constant (@100 Hz)	3.1	3.1		2.8	2.9	
Dissipation Factor (@100 Hz)	0.002	0.002		0.003	0.003	
Volume Resistivity (ohms/cm)	$1 \times 10^{15}$	$1 \times 10^{15}$		$1 \times 10^{15}$	$1 \times 10^{15}$	

For additional information, please refer to individual data sheets. Custom formulations are available, please contact the factory for details.

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