



# Silicones, Inc.

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*RTV-2 Silicones Since 1974*

## P-50

### Product Information

#### General Information

**P-50** is a high durometer, platinum-catalyzed, RTV-2 silicone rubber designed for casting polyurethane and epoxy molds. It is easy to mix and de-air, and will cure with virtually no shrinkage. The speed at which the rubber hardens can be dramatically accelerated with heat or with **Pt Accelerator** at room temperature. Addition-cure two-component silicone rubbers may show inhibition sensitivity. **P-50** offers outstanding chemical and heat resistance and the rigidity to withstand the expansion of most polyurethane foams.

#### Typical Properties

##### Uncatalyzed Compound

<b>Color</b>	Base: Tan	Activator: Green
<b>Viscosity (cps)</b>	Base: 110,000-130,000	Activator: 1,000-2,000
<b>Mixing Ratio (B/A)</b>	By weight: 100 / 10	By volume: 100 / 13.8
<b>Viscosity (cps)</b>	Mixed: 70,000-90,000	
<b>Working Time</b>	1 to 2 hours	
<b>Cure Time</b>	16-24 hours	
<b>Shelf Life</b>	6 months	

##### Vulcanized (cured) Properties (7 days @ 70° F / 50% relative humidity)

<b>Shore A Hardness (±4)</b>	One day: 52	7 Days: 54
<b>Tear Resistance (ASTM D624)</b>	70 ± 10 ppi	
<b>Tensile Strength (ASTM D412)</b>	750 ± 50 psi	
<b>Elongation (ASTM D412)</b>	200 ± 25 %	
<b>Service Temperature (° F)</b>	-60 to 650	
<b>Shrinkage</b>	<i>nil</i>	
<b>Specific Gravity</b>	1.30	
<b>Coverage (in<sup>3</sup> / lb)</b>	21.3	
<b>Dielectric Strength (volts/mil)</b>	500	
<b>Dielectric Constant (@ 100 HZ)</b>	2.9	
<b>Dissipation Factor (@ 100 HZ)</b>	0.015	
<b>Volume Resistivity (ohms/cm)</b>	5 x 10 <sup>14</sup>	

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