



# Silicones, Inc.

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*RTV-2 Silicones Since 1974*

## P-90

### Product Information

#### General Information

**P-90** is a high tear strength, platinum-catalyzed, RTV-2 silicone rubber. 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 exhibit excellent chemical and heat resistance, but may show inhibition sensitivity. **P-90** offers excellent release properties and is extremely useful for those applications where exceptional flexibility and tear resistance are required.

#### Typical Properties

##### Uncatalyzed Compound

<b>Color</b>	Base: White or Translucent	Activator: Red or Clear
<b>Viscosity (cps)</b>	Base: 60,000-80,000	Activator: 1,500-2,500
<b>Mixing Ratio (B/A)</b>	By weight: 100 / 10	By volume: 100 / 11.7
<b>Viscosity (cps)</b>	Mixed: 40,000-55,000	
<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: 32	7 Days: 35
<b>Tear Resistance (ASTM D624)</b>	125 ± 10 ppi	
<b>Tensile Strength (ASTM D412)</b>	600 ± 50 psi	
<b>Elongation (ASTM D412)</b>	415 ± 30 %	
<b>Service Temperature (° F)</b>	-60 to 600	
<b>Shrinkage</b>	<i>nil</i>	
<b>Specific Gravity</b>	1.13	
<b>Coverage (in<sup>3</sup> / lb)</b>	24.5	
<b>Dielectric Strength (volts/mil)</b>	580	
<b>Dielectric Constant (@ 100 HZ)</b>	2.8	
<b>Dissipation Factor (@ 100 HZ)</b>	0.006	
<b>Volume Resistivity (ohms/cm)</b>	5 x 10 <sup>14</sup>	

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