



# Silicones, Inc.

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*RTV-2 Silicones Since 1974*

## P-45

### Product Information

#### General Information

**P-45** is a low viscosity, high tear strength, platinum-catalyzed, RTV-2 silicone rubber, which was designed for casting polyurethane parts. 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 some inhibition sensitivity. **P-45** is extremely useful for large architectural applications where superior mechanical properties are required.

#### Typical Properties

##### Uncatalyzed Compound

<b>Color</b>	Base: Off-white	Activator: Reddish-Brown
<b>Viscosity (cps)</b>	Base: 55,000-75,000	Activator: 1,000-2,000
<b>Mixing Ratio (B/A)</b>	By weight: 100 / 10	By volume: 100 / 11.2
<b>Viscosity (cps)</b>	Mixed: 40,000-50,000	
<b>Working Time</b>	$\frac{3}{4}$ to 1 $\frac{1}{2}$ 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 (<math>\pm 4</math>)</b>	One day: 44	7 Days: 45
<b>Tear Resistance (ASTM D624)</b>	160 $\pm$ 15 ppi	
<b>Tensile Strength (ASTM D412)</b>	800 $\pm$ 50 psi	
<b>Elongation (ASTM D412)</b>	275 $\pm$ 50 %	
<b>Service Temperature (<math>^{\circ}</math> F)</b>	-60 to 600	
<b>Shrinkage</b>	<i>nil</i>	
<b>Specific Gravity</b>	1.12	
<b>Coverage (in<sup>3</sup> / lb)</b>	24.9	
<b>Dielectric Strength (volts/mil)</b>	<i>n.a.</i>	
<b>Dielectric Constant (@ 100 HZ)</b>	<i>n.a.</i>	
<b>Dissipation Factor (@ 100 HZ)</b>	<i>n.a.</i>	
<b>Volume Resistivity (ohms/cm)</b>	<i>n.a.</i>	

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