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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

Color	Base: Off-white	Activator: Reddish-Brown
Viscosity (cps)	Base: 55,000-75,000	Activator: 1,000-2,000
Mixing Ratio (B/A)	By weight: 100 / 10	By volume: 100 / 11.2
Viscosity (cps)	Mixed: 40,000-50,000	
Working Time	$3/4$ to $1\ 1/2$ hours	
Cure Time	16-24 hours	
Shelf Life	6 months	

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

Shore A Hardness (± 4)	One day: 44	7 Days: 45
Tear Resistance (ASTM D624)	160 \pm 15 ppi	
Tensile Strength (ASTM D412)	800 \pm 50 psi	
Elongation (ASTM D412)	275 \pm 50 %	
Service Temperature ($^{\circ}$ F)	-60 to 600	
Shrinkage	<i>nil</i>	
Specific Gravity	1.12	
Coverage (in³ / lb)	24.9	
Dielectric Strength (volts/mil)	<i>n.a.</i>	
Dielectric Constant (@ 100 HZ)	<i>n.a.</i>	
Dissipation Factor (@ 100 HZ)	<i>n.a.</i>	
Volume Resistivity (ohms/cm)	<i>n.a.</i>	

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