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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

Color	Base: White	Activator: Red
Viscosity (cps)	Base: 60,000-80,000	Activator: 1,500-2,500
Mixing Ratio (B/A)	By weight: 100 / 10	By volume: 100 / 11.7
Viscosity (cps)	Mixed: 40,000-55,000	
Working Time	1 to 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: 32	7 Days: 35
Tear Resistance (ASTM D624)	125 ± 10 ppi	
Tensile Strength (ASTM D412)	600 ± 50 psi	
Elongation (ASTM D412)	415 ± 30 %	
Service Temperature (° F)	-60 to 600	
Shrinkage	<i>nil</i>	
Specific Gravity	1.13	
Coverage (in³ / lb)	24.5	
Dielectric Strength (volts/mil)	580	
Dielectric Constant (@ 100 HZ)	2.8	
Dissipation Factor (@ 100 HZ)	0.006	
Volume Resistivity (ohms/cm)	5 x 10 ¹⁴	

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