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RTV-2 Silicones Since 1974

P-44

Product Information

General Information

P-44 is a translucent, medium viscosity, high tear strength, platinum-catalyzed, RTV-2 silicone rubber, which was designed for casting parts where visual inspection is required. 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-44** is supplied with 2 Activators: **P-44A (1)** is used for production molds, while **P-44A (2)** is used for casting clear parts. **P-44** is extremely useful for prototype applications where superior mechanical properties are required.

Typical Properties

Uncatalyzed Compound

Color	Base: Translucent	Activators: Clear
Viscosity (cps)	Base: 90,000-110,000	Activator: 1,000-2,000
Mixing Ratio (B/A)	By weight: 100 / 10	By volume: 100 / 10.9
Viscosity (cps)	Mixed: 50,000-60,000	
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: 42	7 Days: 42
Tear Resistance (ASTM D624)	120 ± 20 ppi	
Tensile Strength (ASTM D412)	600 ± 50 psi	
Elongation (ASTM D412)	250 ± 25 %	
Service Temperature (° F)	-60 to 600	
Shrinkage	<i>nil</i>	
Specific Gravity	1.09	
Coverage (in³ / lb)	25.6	
Dielectric Strength (volts/mil)	500	
Dielectric Constant (@ 100 HZ)	2.9	
Dissipation Factor (@ 100 HZ)	0.003	
Volume Resistivity (ohms/cm)	1 x 10 ¹⁵	

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