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RTV-2 Silicones Since 1974

P-50

Product Information

General Information

P-50 is a high durometer, platinum-catalyzed, RTV-2 silicone rubber designed for casting polyurethane and epoxy molds. 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 may show inhibition sensitivity. **P-50** offers outstanding chemical and heat resistance and the rigidity to withstand the expansion of most polyurethane foams.

Typical Properties

Uncatalyzed Compound

Color	Base: Tan	Activator: Green
Viscosity (cps)	Base: 110,000-130,000	Activator: 1,000-2,000
Mixing Ratio (B/A)	By weight: 100 / 10	By volume: 100 / 13.8
Viscosity (cps)	Mixed: 70,000-90,000	
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: 52	7 Days: 54
Tear Resistance (ASTM D624)	70 ± 10 pli	
Tensile Strength (ASTM D412)	750 ± 50 psi	
Elongation (ASTM D412)	200 ± 25 %	
Service Temperature (° F)	-60 to 650	
Shrinkage	<i>nil</i>	
Specific Gravity	1.30	
Coverage (in³ / lb)	21.3	
Dielectric Strength (volts/mil)	500	
Dielectric Constant (@ 100 HZ)	2.9	
Dissipation Factor (@ 100 HZ)	0.015	
Volume Resistivity (ohms/cm)	5 x 10 ¹⁴	

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