



Silicones, Inc.

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RTV-2 Silicones Since 1974

P-50

Product Information

General Information

P-50 is a two component addition cure silicone rubber mold making material. It has a high durometer, high modulus, superb physical properties, minimal shrinkage and extreme chemical resistance making it an excellent choice for prototyping, casting urethane foam and other plastics. **P-50** also serves as an excellent choice for use in trapped rubber molding and pressure intensifier applications when working with composites.

Typical Properties

Uncatalyzed Compound

Color	Base: Tan	Activator: Green
Viscosity (cps)	Base: 110,000 - 130,000	Activator: 1000 - 2000
Mixing Ratio (B/A)	By weight: 100 / 10	By volume: 100 / 13.8
Mixed Viscosity	70,000 - 90,000	
Working Time	1.5 to 2.5 hours	
Cure Time	16 - 18 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
Post Cure: (± 4)		
1 hour at 150°F		55
+ 1 hour at 250°F		56
+ 1 hour at 300°F		57
Tear Resistance (ASTM D624)		70 \pm 15 pli
Tensile Strength (ASTM D412)		750 \pm 50 psi
Elongation (ASTM D412)		200 \pm 25 %
Coefficient of Thermal Expansion (linear)		2.69 x 10 ⁻⁴ m/m-°C
Service Temperature (° F)		-60 to 650
Shrinkage		nil
Specific Gravity		1.30
Coverage (in ³ / lb)		21.3

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