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RTV-2 Silicones Since 1974

Product Information

P-50 SILICONE RUBBER

P-50 is a two-component addition cure silicone rubber mold making material. It has a high durometer, superb physical properties, minimal shrinkage and extreme chemical resistance making it an excellent choice for prototyping, casting urethane foam and other plastics. P-50 cures at room temperature in 18-24 hours; however, the curing rate can be accelerated with Pt Accelerator at room temperature or with heat.

Typical Properties

Uncatalyzed Compound

Color	Base: Tan	Activator: Green
Viscosity (cps)	Base: 110,000 – 130,000	Activator: 1000 - 1500
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: 54	+ 2 hours @ 250°F 58 \pm 4
Tear Resistance (ASTM D624)	40 \pm 10 ppi	
Tensile Strength (ASTM D412)	540 \pm 50 psi	
Elongation (ASTM D412)	250 \pm 25 %	
Service Temperature (° F)	-60 to 600	
Shrinkage	nil	
Specific Gravity	1.30	
Coverage (in³ / lb)	21.3	

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