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RTV-2 Silicones Since 1974

Product Information Silicones, Inc.

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P-FDA

P-FDA is designed for mold making where FDA approval for food contact is desired or required. It is approved for repeated food contact, such as making candy or ice sculptures, but is not approved for medicinal purposes or for use inside the human body. P-FDA is a platinum-catalyzed, addition reaction, flexible silicone with excellent tear resistance and tensile strength.

P-FDA is mixed 100 parts of Base to 10 parts of Activator by weight. Deviations from this ratio will cause changes in the physical properties. Choose a container with a volume that is four times greater than that of the rubber. Weigh the components accurately and mix thoroughly. Since there is no color, mix very carefully, scraping the sides and bottom of the container to insure that there is no unmixed portion. Place the container in a vacuum chamber and deaerate at 28 inches of mercury vacuum until the mass of rubber rises and then collapses.

Typical Properties

Uncatalyzed Compound

Color Base: White Activators: Clear
Mixing Ratio (B/A) By weight: 100 / 10 By volume: 100 / 11.2
Viscosity (cps) Mixed: 60,000 - 90,000
Working Time 1 1/2 to 2 1/2 hours
Cure Time (70oF) 16 - 24 hours
Shelf Life 6 months

Vulcanized (cured) Properties (7 days @ 70_ F / 50% relative humidity)

Shore A Hardness (_4) One day: 37 7 Days: 37
Tear Resistance (ASTM D624) 110 _ 15 ppi
Tensile Strength (ASTM D412) 850 _ 50 psi
Elongation (ASTM D412) 350 _ 25 %
Service Temperature (_ F) -60 to 500
Shrinkage <0.15%
Specific Gravity 1.12
Coverage (in3 / lb) 24.9

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