



Silicones, Inc.

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RTV-2 Silicones Since 1974

P-10, P-15 and P-20

Product Information

General Information

P-10, P-15 and P-20 RTV silicone rubbers are two-component, platinum-catalyzed systems that cure at room temperature. All of these materials have low viscosity, high elongation, high tear strength and low durometer. They are 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 inhibition sensitivity. **P-10, P-15 and P-20** offer excellent release properties and are extremely useful for casting complex shapes, animatronic skins, or any application where exceptional flexibility and tear resistance are required.

Typical Properties

Uncatalyzed Base	P-10B	P-15B	P-20B
Color	Translucent	Translucent	Translucent
Viscosity (\pm 5,000 cps)	15,000	30,000	30,000
Mixing Ratio (B/A)			
By weight:	100/10	100/10	100/10
By volume:	100/10.9	100/10.9	100/10.9
Mixed Viscosity (\pm 5,000 cps)	10,000	8,000	20,000
Working Time (Hours)	1 to 2	1 to 2	1 to 2
Cure Time (Hours)	16 to 18	16 to 18	16 to 18
Shelf Life (Months)	6	6	6

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

Shore A Hardness (\pm 4)

One day / 7 Days:	10 / 12	15 / 18	20 / 22
Tear Resistance , ppi (ASTM D624)	75 \pm 25	100 \pm 25	120 \pm 25
Tensile Strength , psi (ASTM D412)	350 \pm 50	475 \pm 50	525 \pm 50
% Elongation (ASTM D412)	450 \pm 50	460 \pm 50	425 \pm 50
Service Temperature , °F	-60 to 550	-60 to 550	-60 to 550
Shrinkage	nil	nil	nil
Specific Gravity	1.08	1.08	1.08
Coverage , in ³ / lb	25.6	25.6	25.6

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