

# RTV2 Silicone Rubber

RTV2 silicone rubbers are composed of a base and a platinum-curing catalyst. When mixed together, they create a pourable molding rubber that vulcanizes at room temperature. RTV2 silicone rubber is an ideal choice for creating jewelry molds. RTV2 silicone rubbers provide excellent durability over time, excellent stability over time, zero shrinkage, mixing ease and increased production speed.

## Excellent Durability Over Time

RTV2 platinum-cured silicone rubber molds last significantly longer than urethane-based room temperature cured molding materials. It is common for RTV2 platinum-cured silicone rubber molds to retain their shape and detail for up to 20 years. Urethane-based products tend to soften in 2-4 years, even when carefully stored.

## Excellent Stability Over Time

RTV2 platinum-cured silicone rubber molds are extremely stable after vulcanization. While other molding rubbers are affected by humidity, light and temperature after vulcanization, RTV2 platinum-cured silicone rubbers are not. RTV2 platinum-cured silicone rubbers maintain their dimensional stability over the life of the mold.

## Zero Shrinkage

RTV2 platinum-cured silicone rubber molds demonstrate virtually zero shrinkage. There is no need to compensate for shrinkage when designing the pattern. Tin-cured room temperature vulcanized materials can shrink as much as 1.5%; which must be taken into consideration during pattern design.

## Mixing Ease

RTV2 silicone rubbers are mixed in a 1:1 ratio, eliminating the need for expensive mixing equipment. In addition, RTV2 silicone rubbers are not as sensitive to errors in mixing proportion as non-silicone room temperature cured materials.

## Increased Production Speed

RTV2 silicone rubber materials set in less than 4 hours, allowing you to inject patterns the same day the mold is created. Other silicone rubbers take 24 hours to cure at room temperature, delaying the actual pattern-making process.



## PRODUCT DATA SHEET



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## Typical Material Properties\*

	RTV2 silicone rubber RTV3135	RTV2 silicone rubber HT42
Mixing Ratio (Catalyst:Base)	1:1	1:1
Viscosity Pre-Catalyzation	<10,000 cPs	<25,000 cPs
Mixing Time at 73°F (23°C)	1 minute	1 minute
Working time at 73°F (23°C)	20-25 minutes	20-25 minutes
Setting time at 73°F (23°C)	4 hours	4 hours
Shore A Hardness After 24 Hours	33 ± 3 ShA	42 ± 3 ShA
Tensile Strength	4.7 N/mm <sup>2</sup> (681 psi)	6.5 N/mm <sup>2</sup> (943 psi)
Elongation at Break	430%	350%
Tear Strength	16 N/mm	17 N/mm
Color	Transparent or Red	Gray

\*These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification.

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