



Technical Data Sheet

GT-5736 High Performance Mold Making Silicone

GT Products 5736 is a room temperature tin-curing silicone rubber compound designed for the manufacture of flexible molds. This material has been designed to be used on basic shape patterns and low run molds.

GT-5736 Features

*Low Viscosity *Low Durometer *Resistance to Sulfur Based Clays

GT-5736 is supplied in matched kits with Catalyst CA-5736 designed to be used in a 10:1 ratio by weight.

Typical Properties

	Base	Catalyst
Color	White	Green
Specific Gravity	1.12	0.98
Viscosity (cPs)	35,000	100
Mixed Viscosity	25,000	
Pot Life (Pour Time)		60-90 Minutes
After Cure (7 days @ 25°C)		
Tensile, psi:	450	
Elongation, %	375	
Durometer (Shore A)	35 +/- 5	
Tear (die B)	150	
Linear Shrinkage; %	0.3-0.4	
Specific Gravity	1.1	

Applications:

Hobby and art projects	Foundry, sculpture , and figurines	Candle and Soap Molds
Rapid Prototyping	Special Effects	Model Making

MIXING

Because pigments can settle during storage, Catalyst 5736 should be thoroughly stirred before mixing. Use separate tools for mixing the base and catalyst to avoid cross contamination. Accurate weighing is essential to obtain maximum physical properties from the cured silicone. Add the catalyst to the base and mix until the color is uniform. Low-shear mixing of the mixture is recommended. Use clean tools and scrape the bottom and sides of the container to assure a homogeneous mixture. Avoid stirring in an excessive amount of air.

DEGASSING

Air entrapped during mixing should be removed to prevent voids in the cured product. Dearth the mixed material under a vacuum of 25 mm (29 inches) of mercury. The mixture will froth and expand to four times its original volume, crest and recede to about the original level as the bubbles break. Degassing is usually complete about two minutes after frothing subsides.

CURING

GT Products^o 5736 will cure sufficiently in 16 hours at room temperature (72°F) to be handled. GT 5736 will reach 90% of ultimate cure in 24 hours at room temperature. For full cure an additional 1-2 days at room temperature is required.

STORAGE and HANDLING

GT Products^o 5736 will remain useful for six months when stored in the original unopened containers at temperatures below 80°F (27°C).

Both GT Products^o 5736 and catalyst-5736 are sensitive to moisture. Keep containers covered.

Accessories:

GT Products Silicone Pigments

GT6125 Thixotropic Additive

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