



Technical Data Sheet

GT-5092 High-Performance Mold Making Silicone

GT Products® 5092 is a room temperature curing silicone rubber compound designed for the manufacture of flexible molds.

GT-5092 Features

Low Viscosity

High Tear Strength

Low Durometer

Resistance to Sulfur Based Clays

GT Products® 5092 is supplied in matched kits with Catalyst 5092 designed to be used in a 10:1 ratio by weight.

Typical Properties

	Base	Catalyst
Color	White	Purple
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:	600	
Elongation, %	500	
Durometer (Shore A)	20-25	
Tear (die B) minimum	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 5092 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® 5092 will cure sufficiently in 16 hours at room temperature (72°F) to be handled. GT 5092 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® 5092 will remain useful for six months when stored in the original unopened containers at temperatures below 80°F (27°C).

Both GT Products® 5092 and catalyst-5092 are sensitive to moisture. Keep containers covered.

This system has a limited shelf life and should be used as soon as possible. There is the possibility that the catalyst can erode and damage the bottle if left over an extended period of time in the container. Precautions should be made with this in mind.

Accessories:

ER-200 Mold Release

GT Products Silicone Pigments

GT-6125 Thixotropic Additive

CA-5275 Fast Catalyst

CA-5560 Ultra Fast Catalyst

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