



## Technical Data Sheet

### GT-50P High-Performance Mold Making Silicone

GT Products® 50P is a room temperature curing silicone rubber compound designed for the manufacture of flexible molds.

#### GT-50P Features

High Strength

Easy 10:1 mix

High Durometer

Minimal shrinkage

GT Products® 50P is supplied in matched kits with Catalyst 50P designed to be used in a 10:1 ratio by weight.

#### Typical Properties

	Base	Catalyst
Viscosity (cPs)	53,000	3,500
Pot Life (Pour Time)	60-90 Minutes	
<b>After Cure (7 days @ 25°C)</b>		
Tensile, psi:	700	
Elongation, %	160	
Durometer (Shore A)	50	
Tear (die B) minimum	110	
Linear Shrinkage; %	nil	

#### Applications:

Hobby and art projects	sculpture and figurines	Candle and Soap Molds
Rapid Prototyping	Special Effects	Model Making
Inventing	Rollers	Silicone Print Pads

## **MIXING**

Because pigments can settle during storage, Catalyst 50P 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. Low-shear mixing of the mixture is recommended. Use clean tools and scrape the bottom and sides of the container to ensure 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. Deair the mixed material under a vacuum of 25 mm (29 inches) of mercury. The mixture will froth and, expand four times its 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® 50P will cure sufficiently in 16 hours at room temperature (72°F) to be handled. GT 50P 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® 50P will remain useful for six months when stored in the original unopened containers at temperatures below 80°F (27°C).

### **Accessories:**

ER-200 Mold Release

GT Products Silicone Pigments

GT-5985 Primer for adhesion to metals and other substrates

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**501 Industrial Blvd, Grapevine, TX 76501 • (800)221-0866 or (817)481-7113  
• fax (817)421-1211 • [www.gtproducts.com](http://www.gtproducts.com) • [info@gtproducts.com](mailto:info@gtproducts.com)**