



Technical Data Sheet

GT-40P High-Performance Mold Making Silicone

GT Products® GT-40P is a room temperature curing silicone rubber compound designed for the manufacture of flexible molds.

GT-40P Features

High Strength	10:1 mix
High Durometer	Minimal shrinkage

GT Products® GT-40P is supplied in matched kits with Catalyst 40P designed to be used in a 10:1 ratio by weight.

Typical Properties

	Base	Catalyst
Mixed Viscosity (cPs)		25,000 cPs
Pot Life (Pour Time)		45-90 Minutes
After Cure (7 days @ 25°C)		
Tensile, psi:		800
Elongation, %		450
Durometer (Shore A)		40
Tear (die B) minimum		125
Linear Shrinkage; %		nil

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

Applications:

MIXING

Because pigments can settle during storage, Catalyst 40P 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® GT-40P will cure sufficiently in 16 hours at room temperature (72°F) to be handled. GT-40P 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® GT-40P 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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