



THE COMPLEAT SCULPTOR

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Technical Information Sheet - GI-1040 SILICONE RUBBER

DESCRIPTION

GI-1040 is a condensation cure RTV-2 Silicone Rubber with a Shore A hardness of 40, making it well suited for the rigors of casting polyurethane foam parts. It has high tear and tensile strength with moderate elongation. This combination of high hardness and tear helps to eliminate any distortion due to expansion of the polyurethane foam. It is also excellent for casting non-rising urethanes, polyesters and epoxies where a free standing mold that can maintain a straight edge is desired.

High Shore A Durometer Allows for little or no distortion.

High Tear and Tensile These properties combined with moderate elongation allow for the production of parts that until now had to be made from more expensive, harder to use Platinum catalyzed addition cure products.

Excellent Chemical Resistance GI-1040 exhibits the same long mold life that was built into GI-1032.

Color Coded Catalyst The GI-1040 Activator is blue and is used in a convenient 10:1 ratio by weight.

Low Cost GI-1040 has a low specific gravity (density) compared to many RTV's used for foam casting. This means your mold weighs less and costs less.

SUGGESTED APPLICATIONS

GI-1040 is recommended for casting any type of plastic or gypsum product where higher hardness will minimize mold distortion caused by expansion pressure (foam), weight (highly filled resins, gypsum or ceramics) or operator carelessness.

TYPICAL PROPERTIES

<u>Uncatalyzed Compound</u>	<u>Base</u>	<u>Catalyst</u>
Color	Off White	Blue
Viscosity, cps	90,000-110,000	350
Specific Gravity	1.12	.99
Working Time, hours	1.5 to 2.5	
Cure Time, hours	16 to 18 for demold 24 hours for 30 Shore A	
Shelf Life, months	6	

Cured Rubber (7 days @ 77 deg. F. & 50% R.H.)

Hardness, Shore A	40 1 2
Tensile strength, psi (ASTM D412)	525 1 50 psi
% Elongation (ASTM D412)	225 1 30%
Tear Resistance, ppi (ASTM D624)	100 1 15
% Shrinkage	0.2%

MIXING INSTRUCTIONS

Mix in a ratio of 10 parts Base to one part Activator by weight. Stir thoroughly either by hand or by mechanical mixing until a uniform color results. Deaerate in a vacuum chamber at a minimum of 28 inches of mercury vacuum until material rises to approximately double the volume, then collapses. Carefully pour over the pattern, and allow to cure for 16 to 18 hours.

The information contained in this product information sheet is based on sources believed to be accurate. It is offered in good faith, but without guarantee since the conditions of use are beyond our control. All risks of use are assumed by the user.

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