

G

T

P

GT 6143

Low Cost Silicone RTV MoldMaking Rubber

January 2008

DESCRIPTION

GT Products® 6143 is an economical room-temperature curing silicone rubber compound. GT Products® 6143 is designed for uses where optimum physical properties are not required. A typical application is the backup of silicone RTV glove molds.

GT Products® 6143 features:

- Low cost
- Low viscosity
- Low durometer
- Resistance to sulfur clays

GT Products® 6143 is supplied in matched kits with Catalyst 6143 designed to be used in a 10:1 ratio by weight.

MIXING

Because pigments can settle during storage, Catalyst 6143 should be thoroughly stirred before mixing. Use separate tools for mixing the base and catalyst to avoid cross contamination. Low-shear mixing of the mixture is recommended. Add the catalyst to the base and mix until the color is uniform. 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.

TYPICAL PROPERTIES

	<u>Base</u>	<u>Catalyst</u>
Color	white	Purple
Specific Gravity	1.12	0.98
Viscosity (cPs)	65,000	100
Mixed Viscosity	28000	
Pot Life (pour time)	60-90 min.	
After cure (7 days @ 25°C)		
Tensile, psi:	450	
Elongation, %	375	
Durometer, Shore A	25	
Tear (die B)	60	
Linear shrinkage, %:	0.3-0.4	
Specific Gravity:	1.17	

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. 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® 6143 will cure sufficiently in 16 hours at room temperature (75°F) to be handled. GT 6143 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® 6143 will remain useful for six months when stored in the original unopened containers at temperatures below 80F (27°C). Both GT Products® 6143 and catalyst-6143 are sensitive to moisture. Keep containers covered.

COMPATIBILITY

GT Products® 6143 is a condensation ("Tin catalyst") cure system. It will cure in contact with most clean dry surfaces. GT Products® 6143 will cure in contact with materials such as butyl and chlorinated rubbers, sulfur-containing materials, amines and other condensation RTV silicones which would inhibit the cure of addition-cure RTV rubber.

NOTE

The above information is based on typical experience and should not be used for specification writing. Suitability of this product for a specific application should be determined under actual use conditions. No warranty, either expressed or implied, is hereby made.

January 2008