



Technical Data Sheet

GT-6514

GT Products® 6514 is a room temperature curing silicone rubber compound designed for the manufacture of flexible molds.

GT-6514 Features

| | |
|-----------------------------|-------------------|
| Medium Durometer | Easy 1:1 mix |
| Useful in many applications | Minimal shrinkage |

GT Products® 6514 is supplied in matched kits with Catalyst 6514 designed to be used in a 1:1 ratio by weight.

Typical Properties

| | Base | Catalyst |
|----------------------|---------------|-------------|
| Color | Translucent | Translucent |
| Viscosity (cPs) | 60,000 | 50,000 |
| Pot Life (Pour Time) | 60-90 Minutes | |

After Cure (7 days @ 25°C)

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

| | |
|----------------------|------|
| Tensile, psi: | 1165 |
| Elongation, % | 550 |
| Durometer (Shore A) | 40 |
| Tear (die B) minimum | 115 |
| Linear Shrinkage; % | nil |

MIXING

Because materials can settle during storage, each component should be thoroughly stirred before use. 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® 6514 will cure sufficiently in 16 hours at room temperature (72°F) to be handled. GT 6514 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® 6514 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

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