



Technical Data Sheet

GT-6281 Ultra Soft Silicone

GT Products® 6281 is an addition cure system that is very easy to use and can be used for many applications. GT-6281 when properly mixed and cured will have the feel of human skin. The translucent color will also make this silicone easy to pigment. The low viscosity makes GT-6281 easily mixed and de-aired. GT-6281 also has a quick de-mold time of approximately one hour at room temperature.

GT-6281 Features

| | |
|---------------|-------------------|
| Low Durometer | Minimal shrinkage |
| Fast Setting | Low Viscosity |

GT Products® 6281 is supplied in matched kits with Catalyst 6281 designed to be used in a 1:1 ratio by weight.

Typical Properties

| | Base | Catalyst |
|-----------------------------------------|------------------------------|-------------|
| Color | Translucent | Translucent |
| Viscosity | 2000 | 300 |
| Pot Life (Pour Time) | 8—12 Minutes | |
| After Cure (24 hours @ 25°C) | | |
| Durometer | 30—40 Sponge Rubber | |
| Linear Shrinkage; % | nil | nil |
| Useful Temperature Range °C (°F) | -60 — 232 (-75 — 450) | |

Applications:

| | | |
|------------------------|---------------------|--------------------|
| Hobby and art projects | Silicone Print Pads | Model Making |
| Rapid Prototyping | Special Effects | Rotational Casting |
| Inventing | Rollers | |

MIXING

Because pigments can settle during storage, Catalyst 6281 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. Add the catalyst to the base and mix until the color is uniform. Low-shear mixing of the mixture is recommended. 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.

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® 6281 will cure sufficiently in 16 hours at room temperature (72°F) to be handled. GT 6281 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® 6281 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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