

Small plastic and metal parts

The miniaturization of many products, particularly in the medical technology field with its high innovation rate, has led to a growing demand for small precise parts posing new challenges in the areas of design, development, prototyping and production.

Thanks to its powerful infrastructure (10 RP machines) a broad and continuously optimized range of available processes and materials PROFORM AG as one of the leading RP service providers is in a position to offer you tailor made solutions in the area of rapid creation of prototypes and small series in appropriate materials.

Viper si² Stereolithography

Process: UV Photopolymerization
Laser beam width: 0.1 mm
Materials: 6, e.g. SI25, SI60, DSM 9110
Layer thickness: down to 0.025 mm
Min. wall thickness: approx. 0.1 mm

Main applications: Prototypes and small series, patterns for silicon molds and rapid tools, investment casting

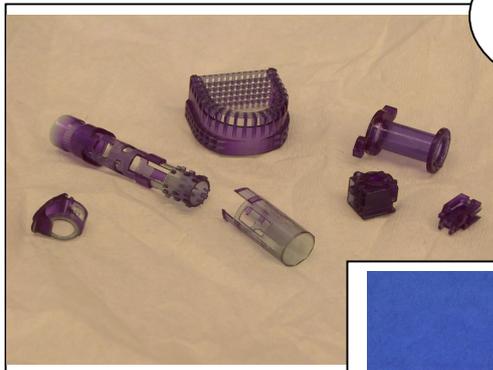
3D Wax printing

Process: Jetting of microdroplets
Droplet size: 0.08 mm
Material: Thermopolymer (wax)
Layer thickness: down to 0.013 mm
Min. wall thickness: approx. 0.13 mm

Main applications: Patterns for investment casting (100% ash free burnout of wax), silicon molds and rapid tools

SILICON
MOLD,
RAPID TOOL

Small functional
gear from mold



Prototypes for medical devices built with Viper si2 system in epoxy resin "Amethyst"

Materials for vacuum casting in silicon molds:
thermoplast-, elastomer- like polyurethanes, - polyureas



Prototypes for gear, switch, investment cast in metal wax patterns

Materials for injection molding in rapid tools:
PE, PP, PC, ABS, PMMA, PS, PA6, PA66, ...



We would be pleased to assist you in taking advantage of these technologies or - we do large parts as well - of other rapid prototyping processes ranging from stereolithography in appropriate resins, FDM in PC, ABS, PPSU to specialized molding and tooling techniques.