temicon micronano solutions

Technical specifications

Contact us
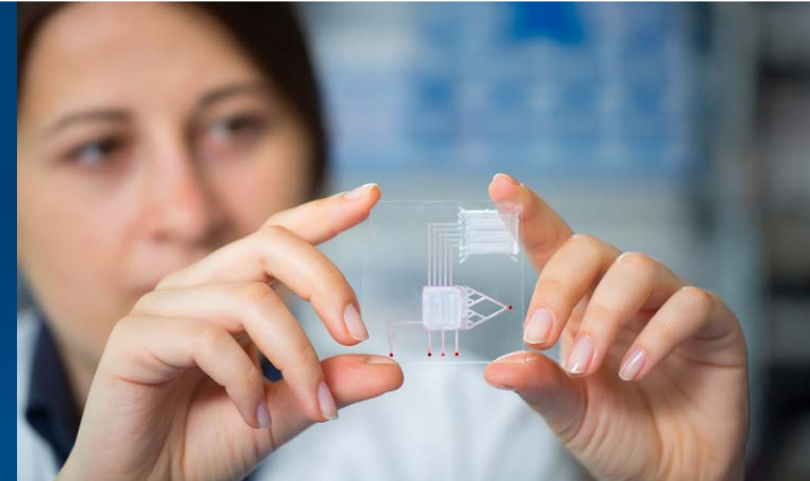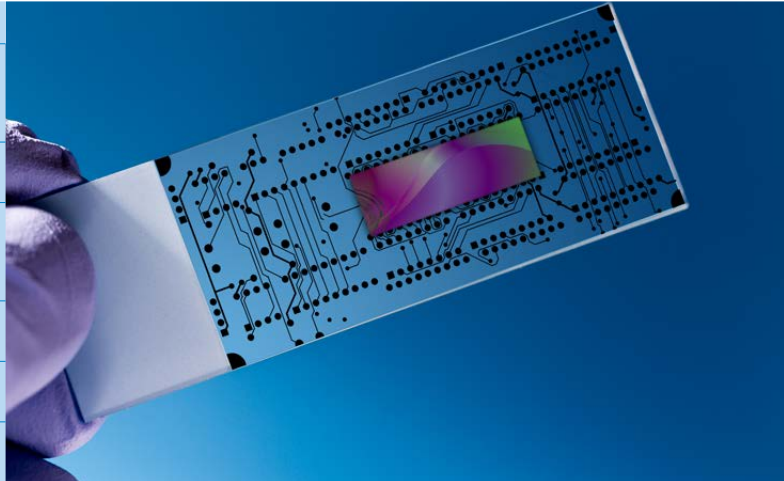
temilife MC

Structure height	Mastering Inhouse 1 layer: 1-50 µm Electroforming possible in several layers
Taper angle	5-7°
Materials	COC, COP, PS, PC, PMMA (others on request)
Aspect ratio	≤ 2
Mold material	Ni/Steel
Lot size	Prototyping - 100.000+ parts

Services of temilife MC technology

- Many years of expertise in mastering of finest structures (resolutions and tolerances)
- Highly precise galvanic processing of the mastered structures
- Competent consulting in terms of suitable materials
- High vertical range of manufacture of all process steps
- Injection molding / injection compression molding including full parameter control and adjustment
- Imprint/screen printing of microstructures
- Silicone casting
- Production of tool inserts
- Production to clean room standard possible
- Fast and flexible throughput times

temicon micronano solutions

temicon GmbH

Konrad-Adenauer-Allee 11
44263 Dortmund
Germany

☏ +49.231.47730-550
✆ +49.231.47730-555

info@temicon.com
www.temicon.com

Follow us

MICROFLUIDIC COMPONENTS

From idea to tooling
and series production
of microfluidic chips

TEMILIFE MC
Microfluidics at temicon

STEPS TO PERFECTION
The Production Chain

MICROFLUIDIC
COMPONENTS

It's all about the details

From idea to series production

Injection molded microfluidic chip

Design

Shim

Test Run

Series

Idea

Master

Tool

Prototype

Customer entrance is possible at various phases of development and production.

Fast and precise

Due to the increasing global demand for fast and cost-efficient diagnostics, microfluidic chips have become more and more important in recent years. temilife MC production technology offers microfluidic structures manufactured exactly according to your needs and requirements. temicon covers the areas of tool development, prototyping and the first small series up to series delivery in 100.000+ parts scale.

All out of one hand

As an one-stop shop we can provide all stages of the production chain, starting with the Idea or design, further to mastering and tooling, up to the manufacturing of prototypes and serial production.

Tailored solutions

No matter if you have an idea or design proposal or if you can already provide a finished master or shim, temicon is your partner for each process step including serial production by injection moulding or UV- rollimprint.
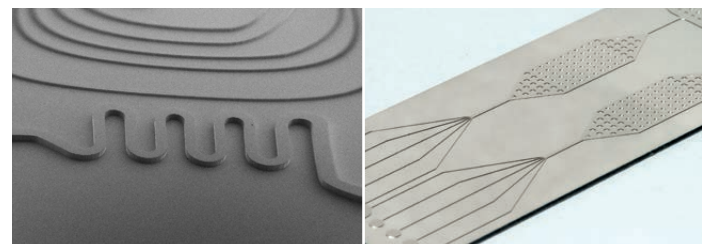
SEM image of a microfluidic structure

Nickel shim with microfluidic pattern

UV- rollimprint (R2R) for lab-on-a-chip production

Lab-on-a-chip production by injection molding