“We are at the forefront of innovation in R2R-EC microstructure imprinting technology.”

INMOLD

LAB-ON-A-FOIL

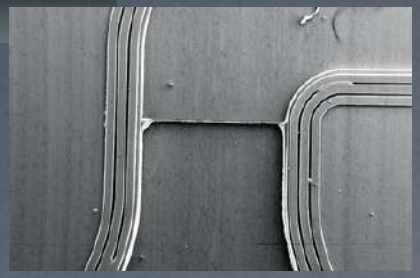
Large-scale replication microfluidics on thermoplastic films

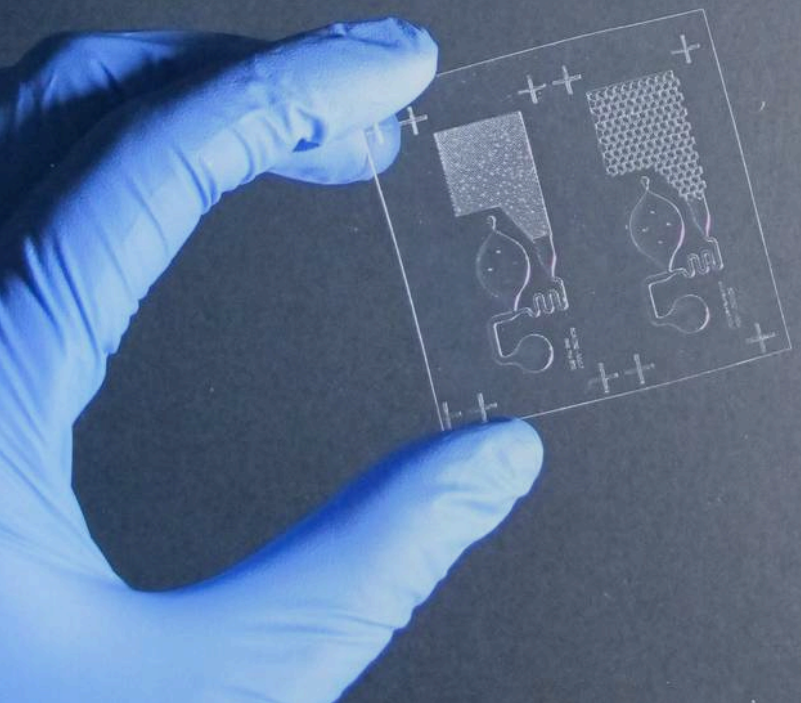
The microfluidics project has received funding from the European Union’s HORIZON 2020 research & innovation programme under grant agreement no. 862092.

MICROSYSTEM FOR VARIOUS PURPOSES

We offer customized fabrication of micro-structured thermoplastic films for advanced microfluidic applications, such as:

- Sensoric
- Mixing
- Filtering
- Cell cultivation





"Our patented Roll-to-Roll platform has unique advantages in comparison to competing technology"

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ADVANTAGES

UPSCALING : HIGH-THROUGHPUT

- Standard film width 450mm (with upscaling potential up to 1.5m)
- High replication speeds of several m^2/min
- Potential production volume of several million m^2/year

MATERIAL : THERMOPLASTICS

- Enable easy replacement of injection molded parts with imprinted films
- Thermoplastic polymers are well-characterized and certified
- Established surface functionalization and bonding methods applicable

SUBSTRATE : THIN FILM

- Reduction of CO_2 footprint through material saving
- Implementation of thin films reduces chip and cartridge volumes (packaging dimensions)
- Lower substrate thickness reduces the distance to the detector
- The imprint technology allows replication of large area imprints (large chip designs)

ABOUT US

INMOLD specializes in surface technology for polymer manufacturing processes with focus on Roll-to-Roll processes.

LAB-ON-A-FOIL
High throughput replication of microfluidic designs on flexible thermoplastics for various applications.

OPTICAL APPLICATIONS
Our thermoplastic films are applicable as light/waveguides, structural diffusers, or Fresnel lenses.

PRODUCT DEVELOPMENT SERVICES
Development and manufacturing of polymer films with customized specifications.

REPLICATION TEST PACKAGES

We offer test packages, designed to assess the compatibility of your design with our platform, explore upscaling possibilities and associated risks, including delivery of best replication samples for inspection at your side.

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