

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 PACKAGE

We offer a testing package, 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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“Pioneering micro- and nano- imprinting technology is our forte.”

PRODUCT DEVELOPMENT SERVICES

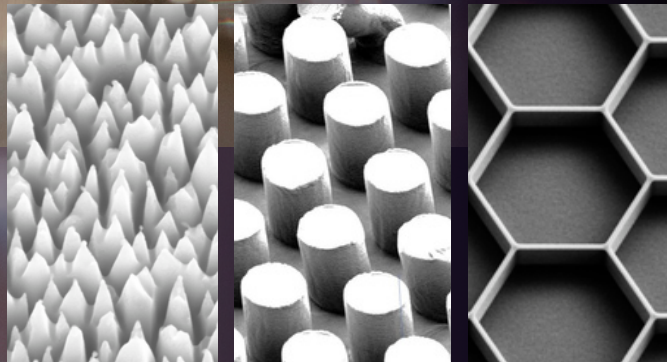
Tailored Micro- and Nano- Structures for Custom Film Surfaces

FUNCTIONAL SURFACES

Inmold has a portfolio of functional surfaces developed during several years of R&D projects:

- Structural colors (plasmons)
- Anti-reflective structures
- Superhydrophobic & Oleophobic films
- Liquid guiding surfaces
- Drag reduction
- Functional surfaces

"We provide consulting and project support, utilizing advanced cleanroom facilities to design, optimize, and produce textured surfaces to meet your requirements."



We customize Micro- and Nano- structures to specific functionalities

ADVANTAGES

UPSCALING : HIGH-THROUGHPUT

- Standard film width 450mm (with upscaling potential up to 1.5m)
- High replication speeds of several m²/min
- Potential production volume of several million m²/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 CO₂ footprint through material saving
- The imprint technology allows replication of large area imprints (large chip designs)
- The film can be used directly on the product or as a cast film for imprinting into other materials