“Pioneering micro- and nano-imprinting technology is our forte.”

INMOLD

PRODUCT DEVELOPMENT SERVICES

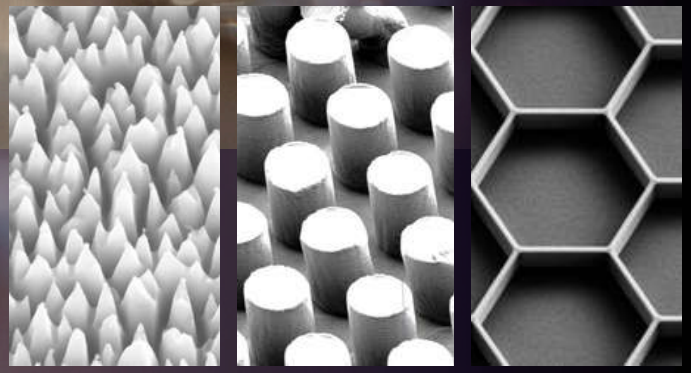
Tailored Micro- and Nano-Structures for Custom Film Surfaces

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

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 customize Micro- and Nano- structures to specific functionalities

INMOLD

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
- 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

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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