

SURFACE FUNCTIONALITIES ON COMPOSITE LAMINATES

- Super repellent, self cleaning
- Anti reflective, self cleaning
- Anti- bacterial
- Ice phobic

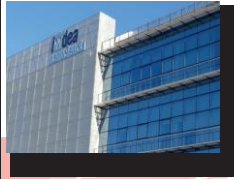
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INDUSTRIAL APPLICATIONS:

- Construction
- Solar and wind energy
- Packaging
- Display
- Medical devices

CONTACTS



IMDEA NANOCIENCIA
c/ Faraday, 9
Ciudad Universitaria de Cantoblanco
28049 Madrid (Spain)

Contacto.nanociencia@imdea.org
tel. +34 91 299 88 70
fax. +34 91 497 68 55

NANOLEAP CONTACT FOR FURTHER INFORMATION ABOUT THE USE OF THIS PILOT LINE:

pilotplant@nanoleap.eu



ROLL TO ROLL PROCESSING OF MULTIFUNCTIONAL NANOCOMPOSITE SURFACES



Project NANOLEAP (www.nanoleap.eu)
Funded by the European Union's
Horizon 2020
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NANOIMPRINTING PILOT PLANT

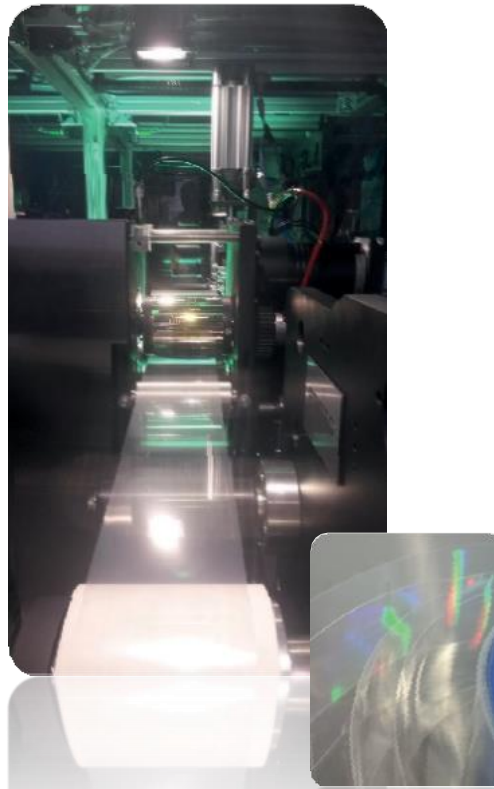
Process capabilities :

- Polymer hot embossing
- Polymer UV imprint
- Reverse gravure printing

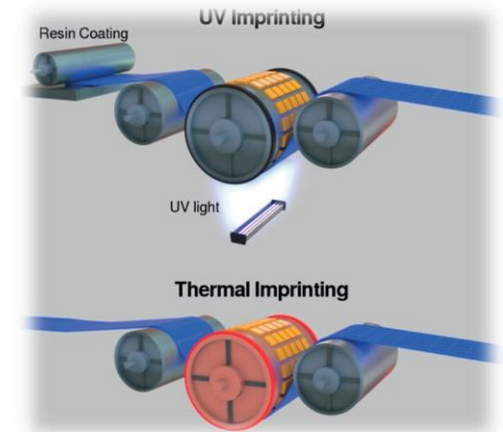
Technical capabilities:

- Feature size from several micrometers down to ~100 nm
- Web width up to 10 mm
- Web speed up to 5 m/min
- Heating up to 230o C
- Power UV curing 90 W /cm at 365 nm

ROLL-TO-ROLL NANOIMPRINTING PILOT PLANT



PROCESSES AND PRODUCTS



Polymer nanoimprinting is a replication process by pattern deformation of a polymeric material. The technique allows producing textures on surfaces with nanometer precision. It is a scalable process and suitable tool for nano-manufacturing.

SERVICES OFFERED

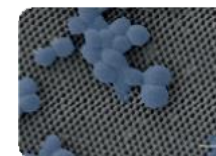
- Technological partnerships
- Scientific consultations
- Contract R&D services
- Process development and optimization
- Pilot trials and feasibility production studies
- Production of samples for customer validation
- Physical and chemical characterization of nanomaterials



Superhydrophobic & self-cleaning surfaces



Anti-reflective surfaces



Antibacterial surfaces