

# Garbage bags and freezer bags - producing high-performance films with high quality

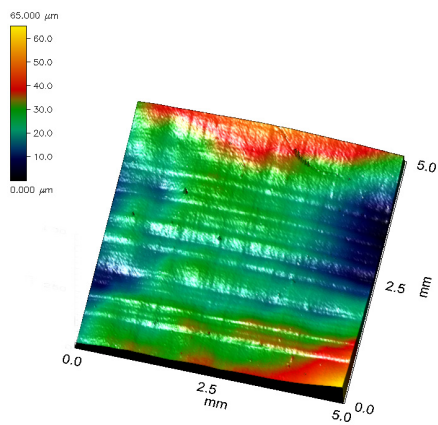


Thickness, topography and roughness in one sensor

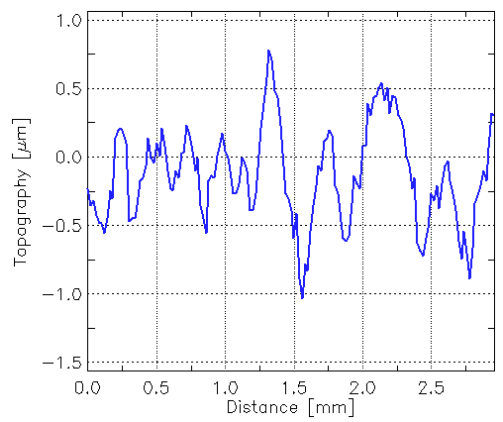
## Ensuring economical production of high-performance films with excellent product quality

- > dielectric films, surface protection coatings, anti reflection layers, adhesive films, packaging ...
- > 3D topography, profiles, roughness, film thickness and layer stacks
- > thickness of thin single films and multi-layer systems, up to ten layers
- > film thickness from few nanometers up to the micrometer range

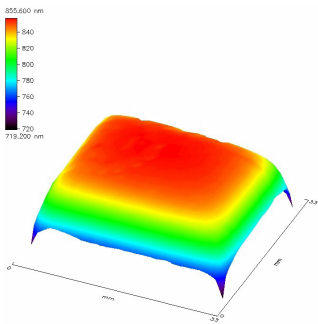
and much more...



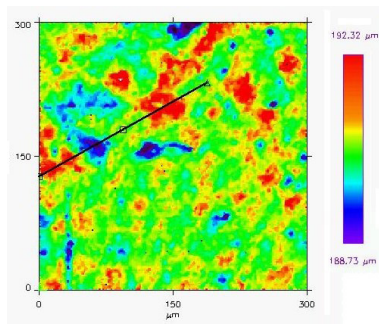
Topography of an extruded polymer film



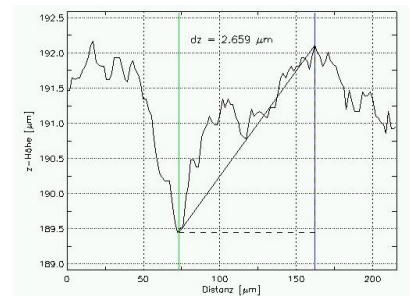
Roughness profile of an extruded polymer film, Ra=0.157 μm



Film thickness mapping of a Si<sub>3</sub>N<sub>4</sub> coating on a Si substrate



Film thickness measurement of a transparent foil, thickness distribution



Film thickness along the profile (black line), determination of the thickness variation

## Example for technical solution



**MicroProf® 200** - optical surface metrology tool