

## Experimental investigation and use of a CFD-based multiphase simulation for predicting the flow behavior of complex suspensions in the plastic injection molding process based on the example of a mineral-filled polyamide

### Problem

- Virtual identification of critical part areas, which are in the microscopic range, is only possible to an extremely limited extent with the 3D injection molding simulation software currently available on the market
- Real flow behavior is only insufficiently modeled

### Objective

- Increased understanding of the influence of the injection molding process on the flow behavior of suspensions
- Development of a simulation methodology that models the interaction between dispersed and continuous phases.

