



Polymer Process Scale- up

MODELING AND SCALING OF PROCESSES

KEY WORDS

SCALE-UP,
PILOT PLANT,
PROCESS
SIMULATION

DESCRIPTION

By combining the expertise of researchers, the use of process simulation software, and a versatile infrastructure that includes laboratories and a pilot plant, we offer a comprehensive service for scaling up polymer production processes. The capability allows for the optimization of process variables (temperature, pressure, residence times), validation of the technical and economic feasibility of a new technology, and production of material batches for larger-scale validation tests. The entire process is supported by the full suite of available characterization techniques to ensure that the polymer's properties are maintained or improved during scale-up.

APPLICATIONS

- Scale-up of polymer synthesis routes
- Validation of new catalysts
- Production of test batches
- Techno-economic feasibility studies of processes
- Technology transfer to the industry

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