Streamlined Polymer Extrusion Simulation

Altair Inspire Extrude Polymer allows users to enhance and optimize the extrusion process to drastically improve productivity and quality.

Fast, Easy, Accurate, and Affordable
"With Altair Inspire Extrude's newly designed interface I have cut my modeling and preprocessing time on average from 2 hours to 10 minutes."

*Jeff Skinner*
*Sales & Technical Representative*
*Thumb Tool & Die Engineering*
Polymer Extrusion Simulation

Extrusion Process

- Define Process Conditions
- Define Material & Organize
- Extract Flow Volume
- Import & Orient

Improve Quality

- Predict and fix visible and invisible extrusion defects upfront before production.

- Profile Distortion
- Die Swell
- Coextrusion
- Coextrusion with Metal Insert

Altair Inspire Extrude Polymer Provides Guided Templates for:

- Coextrusion
- Spiral Dies
Coextrusion with Metal Inserts

- Define Process Conditions
- Simulate & Analyze
- Extrude

**Improve Productivity**

Identify potential causes of production failures and rectify them upfront.

- Tool Deflection
- Clam Shelling
- Die Wear

**Film Extrusion**
Powerful Result Visualization

Through a highly intuitive interface, users can benefit from a quick ramp up in detecting extrusion defects early, resulting in both time and cost savings.

Inspire Extrude Polymer Identifies Costly Defects Such as:

- Profile Distortion
- Die Swell
- Coextrusion Interference

Learn more at altair.com/InspireExtrudePolymer
Altair Inspire Extrude Polymer Benefits

Altair Inspire Extrude Polymer is a simulation based environment designed to help polymer extrusion companies meet the ever increasing demands to produce complex profiles at reduced costs. Altair Inspire Extrude Polymer is a virtual press in which users can visualize material flow and temperature inside a die during extrusion and make necessary changes to ensure balanced flow, while identifying and eliminating product defects.

Detect Visible Defects:
- Profile distortion
- Uneven wall thickness
- Die swelling
- Poor quality due to overheating

Detect Invisible Defects:
- Dead zones
- Weld lines in coextrusion
- Overheating of polymers

Improve Profitability:
- Push production rate by optimizing process parameters upfront
- Detect and fix die deflection and clam shelling
- Detect and decrease die wear and excessive heating
- Minimize pressure fluctuations inside die to maintain uniform flow for a consistent production schedule

Minimal Training With Maximum Benefit

By focusing on ease of use and managing all complexities in the background, Altair Inspire Extrude Polymer eliminates the costly and time consuming training most other extrusion simulation software requires.

Altair Inspire Extrude Polymer is available for:

- Windows 10, 8.1, 7

Supported Languages

- Chinese
- English
- French
- German
- Italian
- Japanese
- Korean
- Portuguese
- Spanish

Learn more at
altair.com/InspireExtrudePolymer

Supported Links:
- forum.solidthinking.com
- youtube.com/InnovationSimulation
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