

Digital Prototyping for the Manufacturing Market

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Autodesk®
Moldflow® Adviser

Validate designs quickly.



Put Plastics Simulation on Every Designer's Desktop

Today, most manufacturing processes include the production of injection-molded plastic parts, a complicated process that can lead to unexpected delays and increased costs. More designers than ever are seeking the ability to confirm the manufacturability of plastic parts and solve crucial manufacturing issues.

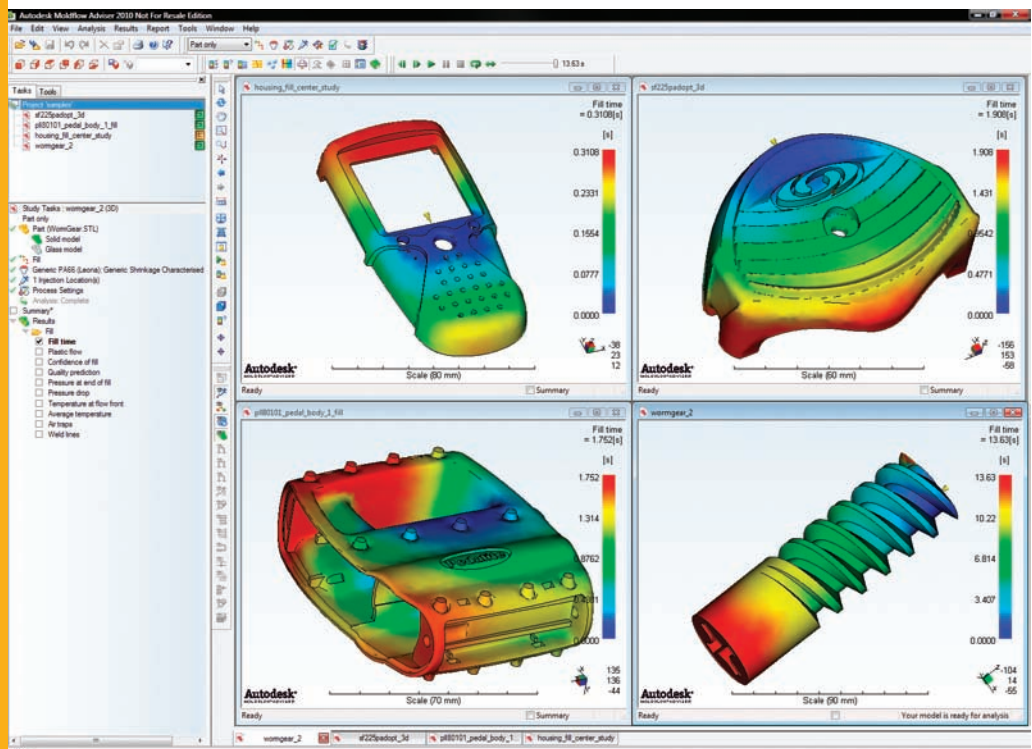
Facing these issues?

- There's no way to confirm manufacturability of plastics part and mold designs under compressed product development timelines.
- Want to quickly analyze 3D solid model geometry without creating time-consuming finite element analysis models.
- Need to produce valuable simulation results quickly before making high-impact design decisions.
- Molded part defects discovered in manufacturing delay production and require new tooling to resolve.
- Lack up-to-date, accurate material data for use in simulations, making it difficult to determine the best material for a given application.
- Want to develop sustainable designs.
- Difficult to communicate valuable simulation results to other members of your design-to-manufacturing team.

Discover how Autodesk Moldflow Adviser puts plastics simulation within every designer's grasp.

Autodesk® Moldflow® Adviser software, part of the Autodesk® solution for Digital Prototyping, provides easy-to-use tools that help you to simulate and optimize your part, mold, and tool designs long before manufacturing begins. By simulating the injection molding process using a digital prototype, you can help reduce the number of physical prototypes required to perfect a design and get your products to market faster.

Autodesk Moldflow Adviser simplifies plastics injection molding simulation and helps to optimize mold features such as gates, runners, and cavity layouts. It guides designers through analysis setup and results interpretation, enabling them to see how changes to wall thickness, gate locations, material, and geometry affect manufacturability. By resolving and clearly communicating potential problems with injection molding process simulation, Autodesk Moldflow Adviser enables any engineer to confidently design injection-molded plastic parts.



Visualize, resolve, and communicate problems early in the design phase with Autodesk Moldflow Adviser.

Make Decisions Quickly

Because it answers basic manufacturing questions such as “will the part fill?”, and with its intuitive design workflow, Autodesk Moldflow Adviser brings plastics process simulation to you in a way that is both natural for experienced users and supportive for novices. Autodesk Moldflow Adviser is designed for ease of use, allowing non-specialist users to analyze design iterations at the earliest stages of development - when the cost of change is low and the impact on manufacturability is high. Wizard-based features guide you through material selection, analysis setup, and results interpretation, so you can deliver valuable results quickly and make critical design decisions faster.

Save Time

Because Autodesk Moldflow Adviser software is part of the Autodesk solution for Digital Prototyping, you can analyze any model created in Autodesk® Inventor® software. It also includes functionality that allows you to import and analyze models created in other 3D CAD software packages. The ability to directly import 3D models will help save hours—even days—because you don't have to prepare models for analysis. As soon as you build a 3D model in Autodesk Inventor, it's ready for analysis. And, to produce reliable, accurate results, Moldflow Adviser even scans imported geometry, automatically detecting and fixing defects that can occur when the model is translated from CAD software.

Avoid Rework

Autodesk Moldflow Adviser products use solver technology that is unbeatable in providing excellent correlation between analysis predictions and real-life molding results. By helping to accurately simulate flow behavior through the mold, Autodesk Moldflow Adviser gives designers and engineers the ability to predict and pinpoint potential part defects, helping them to optimize their designs, improve quality, and avoid manufacturing delays. In this way, Autodesk Moldflow Adviser helps eliminate the need for time-consuming and potentially costly tooling rework or product redesign.

Choose the Right Materials

The choice of materials for use in plastics simulation can have a critical impact on the performance of the end-use application. Autodesk Moldflow Adviser features the world's largest plastic materials database of its kind. With access to more than 8,000 grades of commercial plastics and the most up-to-date, accurate material data, you have the ability to evaluate different materials, predict molded part properties and make the right choice. There's also an Energy Usage Indicator and Resin Identification Codes so designers can further decrease manufacturing energy requirements and choose materials that contribute to sustainability initiatives.

Improve Collaboration

Autodesk Moldflow Adviser enables engineers to find the quickest path from problem to solution by providing them with results-specific design advice to interpret the results of their simulation analyses. Using the automatic documentation tools, your analysis results can be prepared using standardized formats and shared through the web or with common office applications. Create and share HTML, Microsoft® Word, and PowerPoint® documents to promote collaboration, streamline development, and communicate valuable simulation results to other members of your design-to-manufacturing team.

Autodesk Moldflow Adviser Product Line

With different product configurations that offer specific levels of functionality, Autodesk is dedicated to helping plastics design engineers, mold makers and molding professionals create accurate digital prototypes and bring better products to market at less cost.

