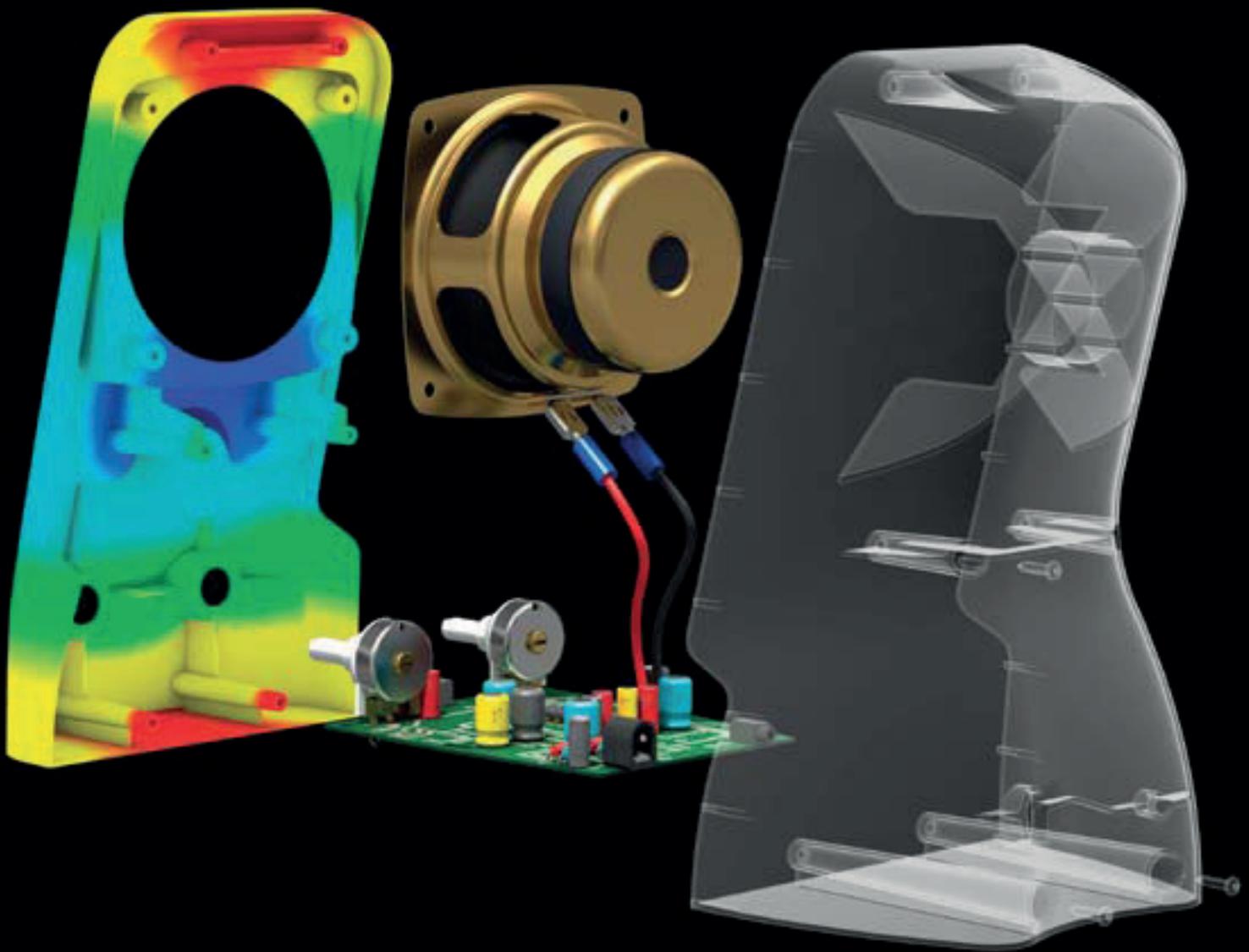


Autodesk® Moldflow® Adviser

Design plastics confidently.



Design Plastic Parts and Injection Moulds with Confidence

Today, manufacturing processes often include the production of injection-moulded 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 avoid potential defects.

Facing these issues?

- There's no way to confirm manufacturability of plastic part and injection mould designs under compressed product development timelines.
- Need to produce valuable simulation results more quickly and before making high-impact design decisions.
- Part defects discovered in manufacturing delay production, cost time and money to fix and, in the worst case, may 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.
- It's difficult to communicate valuable simulation results to other members of an extended design team.

Design plastic parts confidently with Autodesk Moldflow Adviser.

Autodesk® Moldflow® Adviser injection moulding simulation software, part of the Autodesk® solution for Digital Prototyping, provides wizard-based tools to help validate and optimise plastic part, injection mould and tool designs before manufacturing begins. Using a digital prototype to simulate the plastic injection moulding process helps reduce the number of costly physical prototypes required to design plastic parts and helps get innovative products to market faster and with greater confidence.

Autodesk Moldflow Adviser software helps to simplify plastic injection-moulding simulation and optimise mould features such as gates, runners and cavity layouts. Intuitive to learn and use, it guides designers, mould makers and engineers through simulation setup and results interpretation, providing advice on potential defects and suggestions for corrective action. Learn how changes to wall thickness, gate location, material, geometry and mould designs affect manufacturability. By helping to resolve and clearly communicate potential problems, Autodesk Moldflow Adviser software enables engineers to design plastic parts confidently.



Discover, communicate and resolve potential manufacturing defects earlier in the product development cycle with Autodesk Moldflow Adviser software.

Make Design Decisions Faster

By answering basic manufacturing questions such as “will the part fill?” and using an intuitive design workflow, Autodesk Moldflow Adviser software helps provide plastic injection moulding simulation in a way that is both natural for experienced users and supportive for new users. Autodesk Moldflow Adviser software is designed for ease of use, allowing users to study multiple 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, simulation setup and results interpretation, helping you deliver valuable simulation results more quickly and make critical design decisions faster.

Save Time

Autodesk Moldflow Adviser software is part of the Autodesk solution for Digital Prototyping, so models created in Autodesk® Inventor® software can be simulated more easily. Additional functionality also allows you to study models created in other 3D CAD software packages. To help produce more accurate simulation results, Autodesk Moldflow Adviser software scans imported geometry, automatically detecting and fixing defects that can occur when the model is translated from CAD software. Geometry support ranging from thin-walled parts to thick and solid applications helps save time when preparing models for simulation, enabling you to consider multiple design iterations and experiment with “what-if” scenarios.

Avoid Rework

Autodesk Moldflow Adviser software uses solver technology that can provide excellent correlation between simulation predictions and real-life moulding results. By helping to accurately simulate the flow of plastic through a mould more accurately, Autodesk Moldflow Adviser software gives designers and engineers the ability to pinpoint potential part defects, helping to optimise designs, improve quality and avoid manufacturing delays. In this way, Autodesk Moldflow Adviser software helps eliminate the need for time-consuming and potentially costly tooling rework or product redesign.

Choose the Right Materials

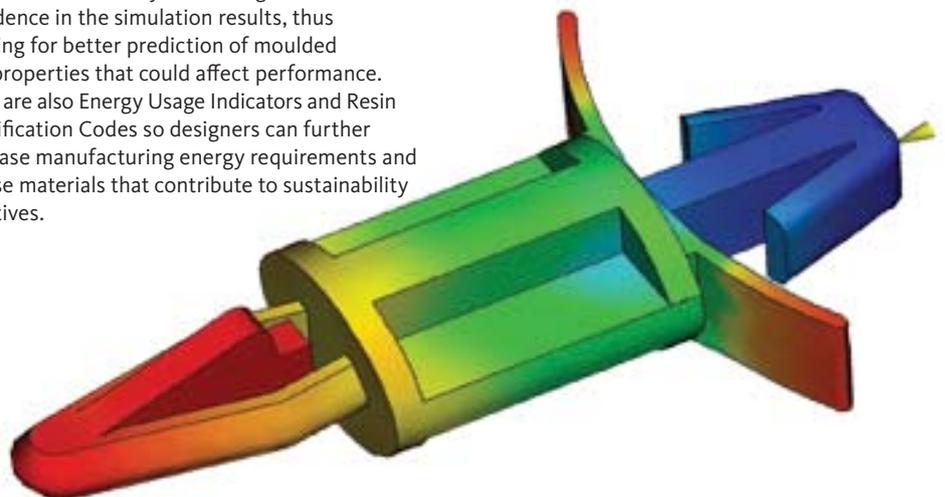
The choice of materials for use in plastics simulation can have a critical impact on a product’s performance. Autodesk Moldflow Adviser software includes one of the largest material databases of its kind. With access to over 8,000 grades of commercial plastics with up-to-date and accurate material data, manufacturers can evaluate various material candidates more easily and have greater confidence in the simulation results, thus allowing for better prediction of moulded part properties that could affect performance. There are also Energy Usage Indicators 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 software helps users find the quickest path from problem to solution by providing results-specific design advice to better interpret simulation results. Using the automated report generation tools, simulation results can be documented using standardised 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 the extended design team.

Autodesk Moldflow Adviser Product Line

With different product configurations that offer specific levels of functionality, Autodesk is dedicated to helping designers, mould makers and engineers create more accurate digital prototypes and bring better products to market at less cost.



Digital Prototyping for the Manufacturing Market

Autodesk is a world-leading supplier of engineering software, providing companies with tools to experience their ideas before they are real. By putting powerful Digital Prototyping technology within the reach of mainstream manufacturers, Autodesk is changing the way manufacturers think about their design processes and is helping them create more productive workflows. The Autodesk approach to Digital Prototyping is unique in that it is scalable, attainable and cost-effective, which allows a broader group of manufacturers to realise the benefits with minimal disruption to existing workflows, and provides the most straightforward path to creating and maintaining a single digital model in a multi-disciplinary engineering environment.

submitted from:

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