

OneSpace Designer Modeling

Moldflow Analysis

The Moldflow Analysis module enables designers to evaluate the manufacturability of their plastic injection-molded parts. This improves the collaboration between designers and manufacturing.

Optimized Designs

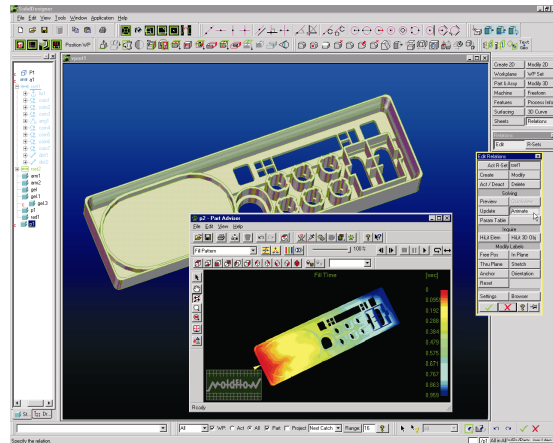
Moldflow Analysis is a plastic flow simulation tool for the designer who wants to ensure the manufacturability of plastic injection-molded parts. It brings a wealth of knowledge about plastics and the injection-molding process to the designer's desktop. Using Moldflow Analysis, designers can make reliable predictions about the fill behaviour of their designs early in the product development process.

The Moldflow Analysis module makes injection-molding expertise available during every stage of the design phase. There is no need for the designer to have special plastics or injection-molding knowledge. The resulting optimization leads to better-quality parts. The end result is faster development and more efficient teamwork throughout the entire design and manufacturing process.

Key Features

Moldflow Analysis provides specific, reliable answers to key injection molding questions, such as the determination of required wall thickness for small features or ribs, or where the best locations for gates are.

It provides advice on whether parts will fill properly during the injection molding process, on the location and appearance of weld lines and air traps, and on whether or not a part will shortshot. Using the model from OneSpace Designer Modeling directly, Moldflow Analysis eliminates meshing, midplane generation, model translation, and model clean-ups. Designs created within OneSpace Designer Modeling can be quickly tested and modified at an early stage in development, when the cost of change is still minimal.



This helps reduce the amount of physical prototypes required.

Designers receive rapid feedback about how modifications and different materials will affect the injection molding characteristics of their parts. Comprehensive on-line advisers provide practical guidance on manufacturing constraints and part behavior. The results are displayed using color-coding for maximum clarity.

To prepare the part for simulation, the designer selects the material from an extensive database of polymers, and optionally sets the injection time, the mold- and melt temperature or the pressure limit for the simulation.

For postprocessing the designer can select from 7 different result types. These are plastic flow, confidence of fill, fill time, pressure distribution, melt temperature, glass model to view weld lines and air traps, and predicted part quality.

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Specific Product Features

- Add-on module to OneSpace Designer Modeling
- Integrated within OneSpace Designer Modeling user interface through start-up button
- View types: confidence of fill, fill time, pressure drop, injection pressure, flow front temperature, glass model to view weld lines and air traps, and predicted part quality
- Material database with over 4500 polymers
- On-line adviser
- Works directly on 3D-model
- Languages:
English, German, French, Japanese

System Requirements

OneSpace 2002 and later.

Runs on same platforms as OneSpace Designer Modeling:

- HP-UX® 11.0/11i (ACE 1199)
- Windows 2000™
- Windows ME™
- Windows NT™ 4.0

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Ordering Information	
Moldflow Analysis	C350
Moldflow Analysis Support	C350A
Moldflow Media and Documentation	C920
Prerequisites	
Modeling	C200

Co|Create

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