Autodesk® Moldflow® Insight 2012

AMI Process Optimization Analysis Results

Autodesk®

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Contents

Process Optimization analysis results

1

This help topic specifies the results for a Process Optimization analysis on a thermoplastic material.

Text based results

The following table lists the text results generated for a Process Optimization analysis.

Results
Analysis Log
Results Summary
Analysis Check

Graphical results

The following table lists the graphical results that are generated for a Process Optimization analysis, and indicates whether each result is supported for the following analysis technologies:

- Midplane
- Dual Domain

For more information about a result, including how to interpret the display, click on the result name.

Result	Analysis technology
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Process Optimization result plots

2

The Process Optimization result shows the flow front area vs time plot, the percentage of part frozen vs time plot, and the ram position vs time plot.

Flow front area vs time

This plot shows the cross-sectional area of the flow front during filling. When the flow front area is larger, higher ram velocities can be used. When the flow front area is smaller, lower ram velocities need to be used to avoid overshearing or overstressing of the material.

Percentage of part frozen vs time

This plot can be used to determine a suitable cooling time for the part. If the plot indicates that a small fraction of the part is extending the cooling time considerably, then examine the “Time to reach ejection temperature” result to locate the areas of the part involved.

Ram position vs time

This plot provides alternate representations of the recommended velocity and pressure profiles calculated by the Optimization analysis.