Altair® Inspire PolyFoam™ 2025.1

NEW FEATURES

Dispensing Ribbon

You can use the new Potting and Dispensing Analysis module to simulate fluid dispensing and potting processes within electronic assemblies and mechanical enclosures. This feature models the flow behavior of adhesives, resins, and encapsulants under gravity and pressure-driven conditions, allowing you to predict and optimize material coverage, fill patterns, and curing behavior.

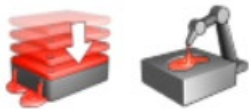For details on this update, see Model Setup – Dispensing Ribbon in the help.

Prefill

The prefill feature simulates an area that is filled with fluid from the start of the simulation—injection will not be a part of the simulation. This feature is useful for conducting compression simulations and supports assignment of individual material properties to each shape.

For more information about this feature, see Designate Prefill Parts in the help.

Surface Tension Modeling

Surface tension modeling in Dispensing mode is useful to achieve better accuracy in tight spaces. Underfill simulation now includes capillary flow and moving parts, enabling realistic fillet formation and improved chip protection.

For more information about this feature, see Moving Parts and Surface Tension in the help.

ENHANCEMENTS

Foaming Ribbon

Air Pocket Stop

In the Foaming Ribbon, the Process Parameters window now includes the option to enable an air pocket stop condition. This is helpful when regulating backpressure to avoid air pockets in the finished part.

For details on this update, see Process Parameters in the help.

Auto Report Tool

You can now automatically generate reports based on Foaming analysis runs. This is helpful for quickly and easily sharing technical information about your model.

For details on this update, see Report in the help.

Additional Changes and Enhancements for 2025.1

- Saved files (*.ipfm) now include materials data to make sharing and collaboration more convenient. [INSPFOAM-1435]

KNOWN ISSUES

The following known issues will be addressed in a future release:

- As of October 14, 2025, Microsoft Windows 10 will reach its end of support. Following Microsoft's messaging, all Altair 2026 applications will no longer support Windows 10. Altair is providing this information to help our customers prepare and accommodate for this change. Altair 2026 will support the Windows 11 operating system, along with our other Linux-based operating systems. Please contact your local Altair support teams if you have any questions or concerns. The use of commas in the installation path causes multiple products to not function.