mid Moulding Innovation Day 2025

What’s new 2025 – Parte 2

Michelle Tung

Moldex3D

Outline

01

Solver

02

Pre-processing

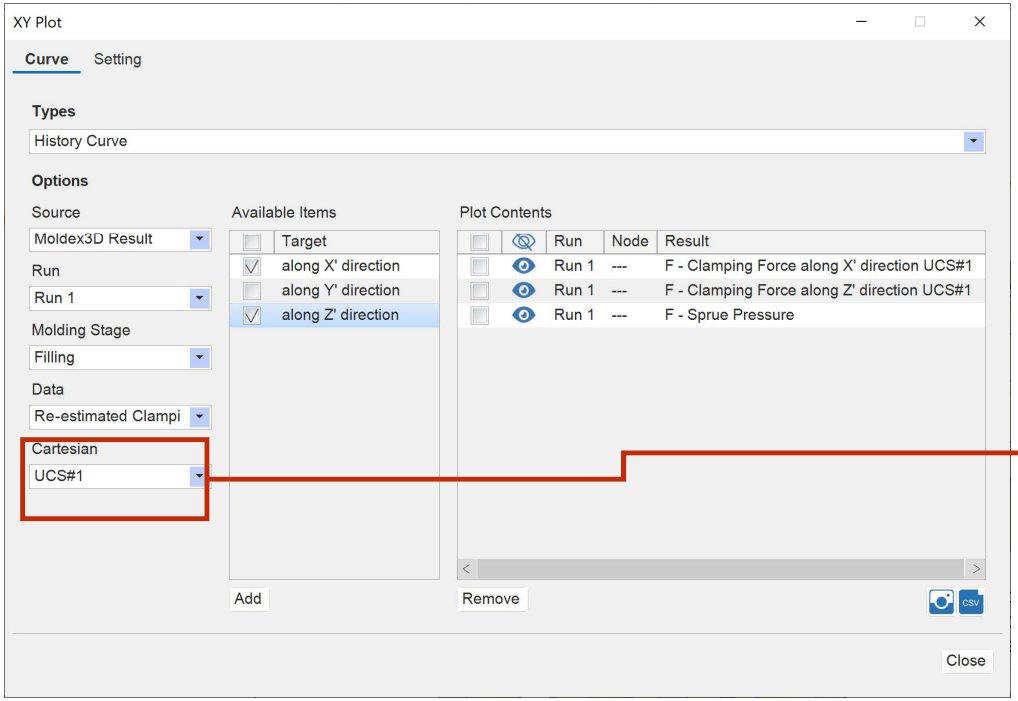
03

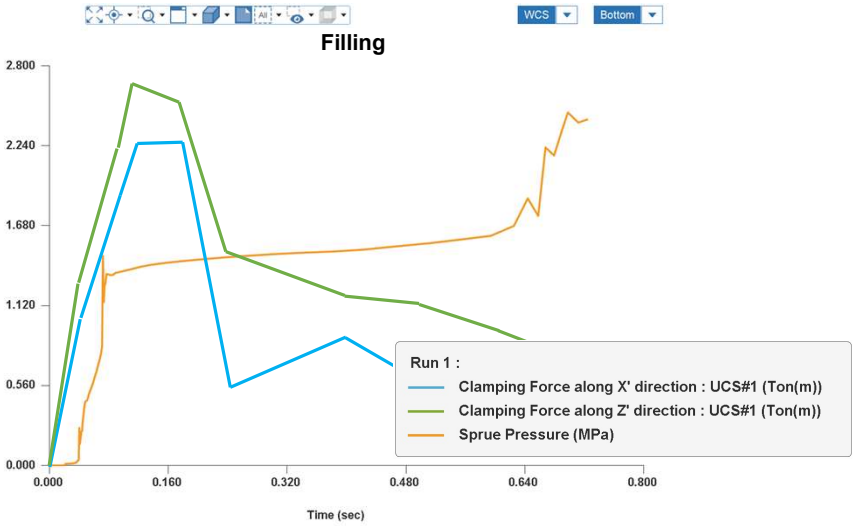
Post-processing

04

Usability improvement

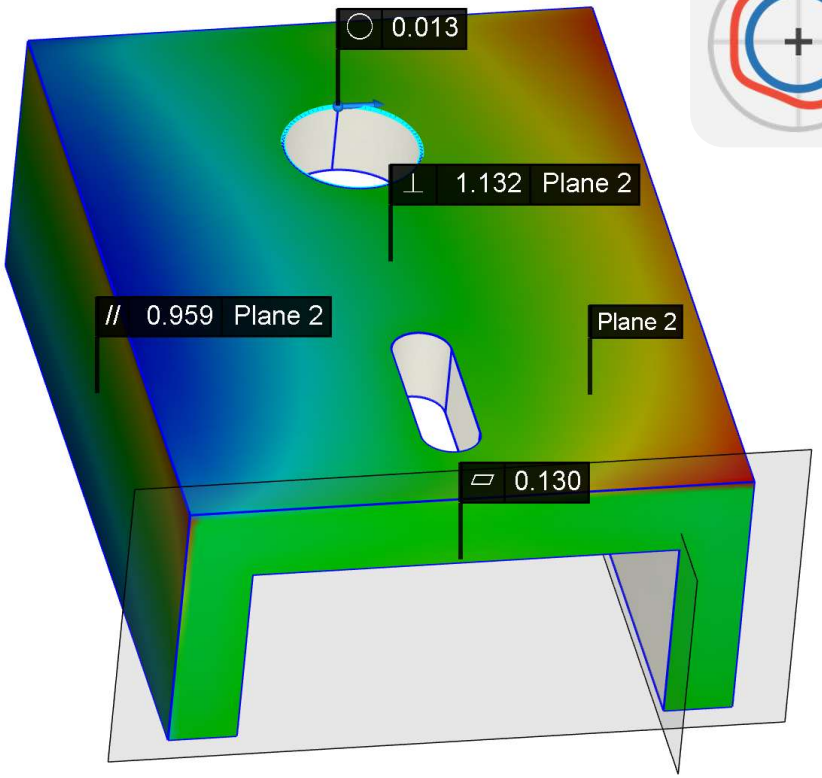
Add re-estimated clamping force in XY Plot considering user-defined coordinate system





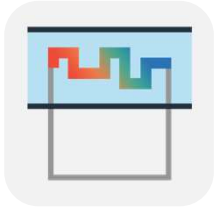
New Measurement Tools - Parallelism & Perpendicularity

Measure Digital Models Just Like Physical Parts!

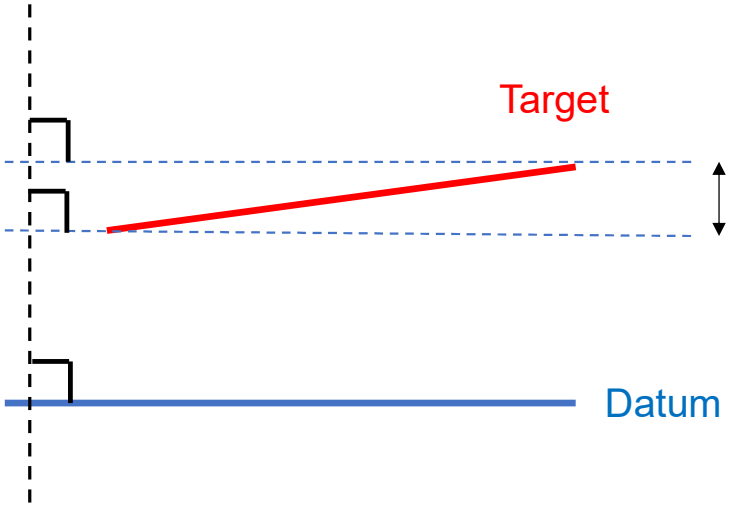


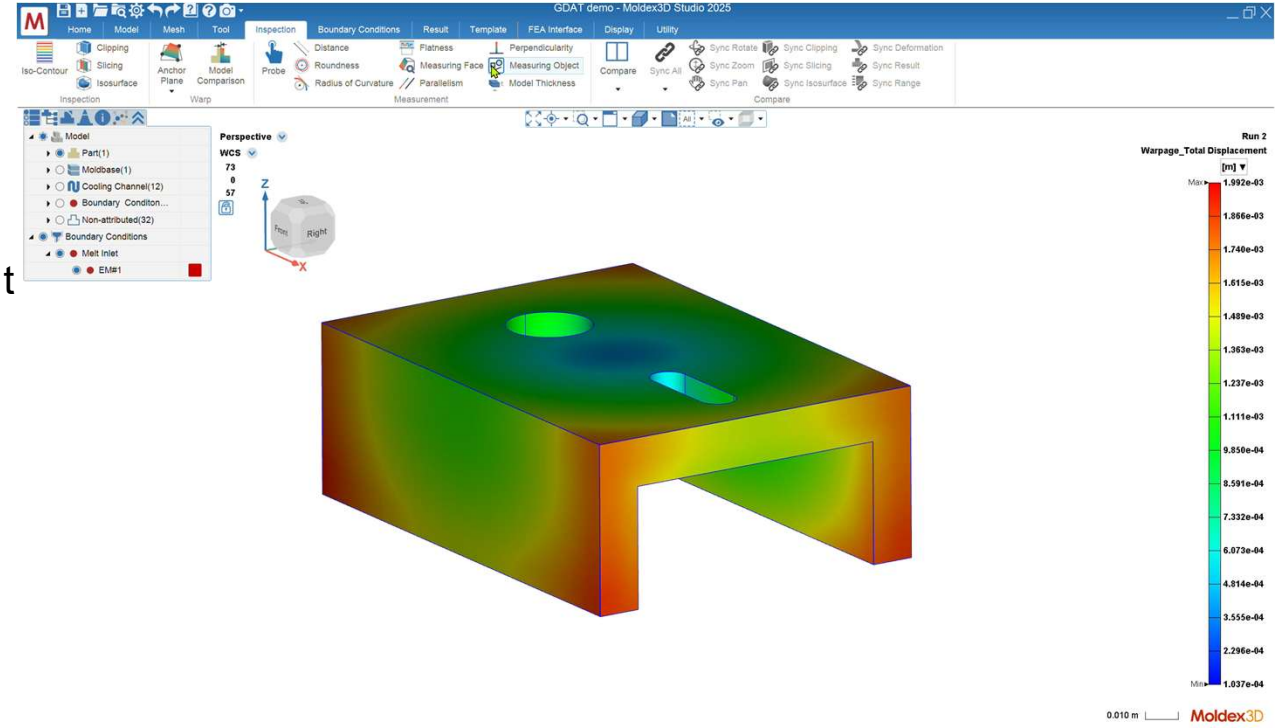
2025 NEW

Measuring Object

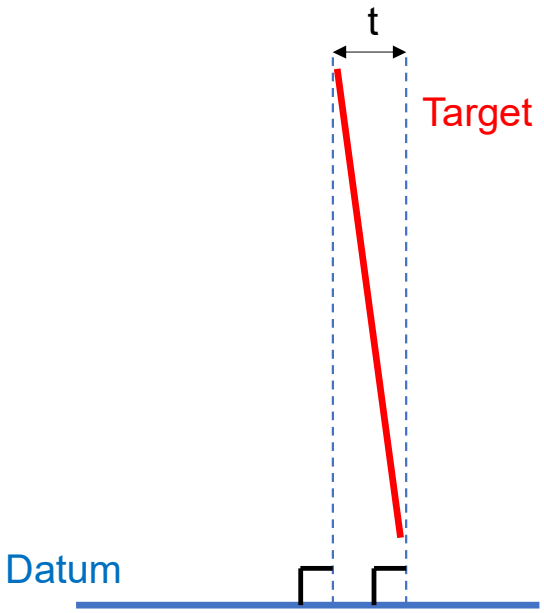


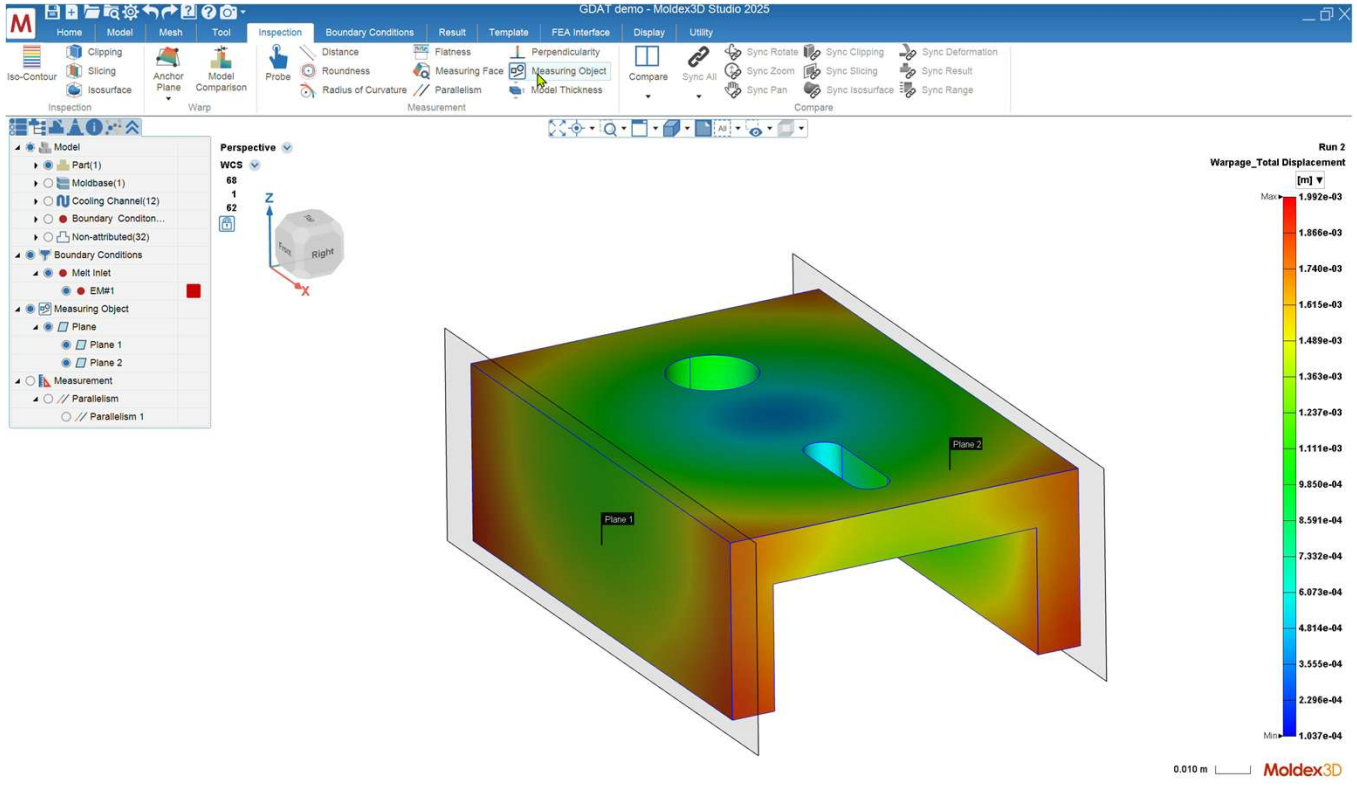
Parallelism //





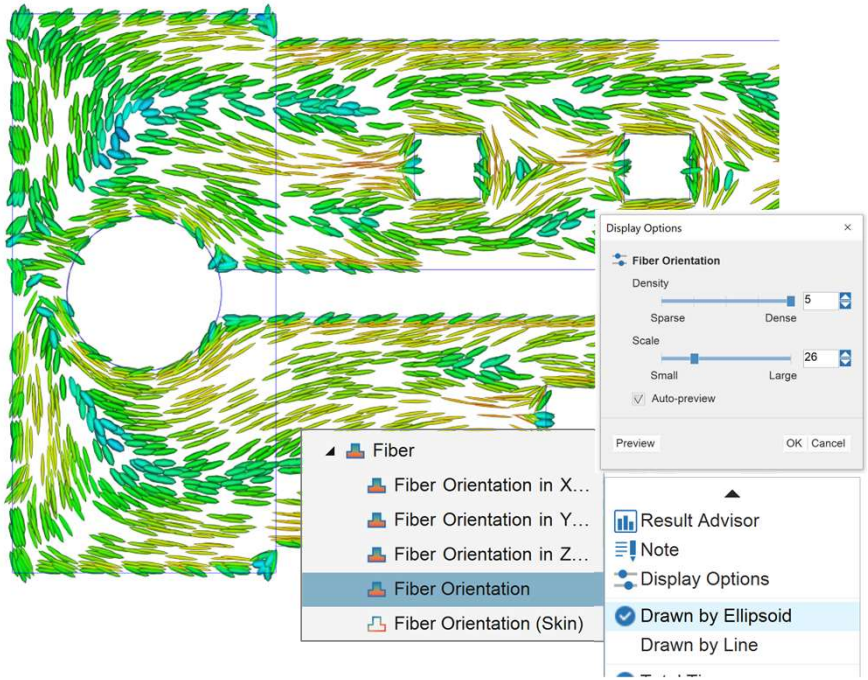
Perpendicularity

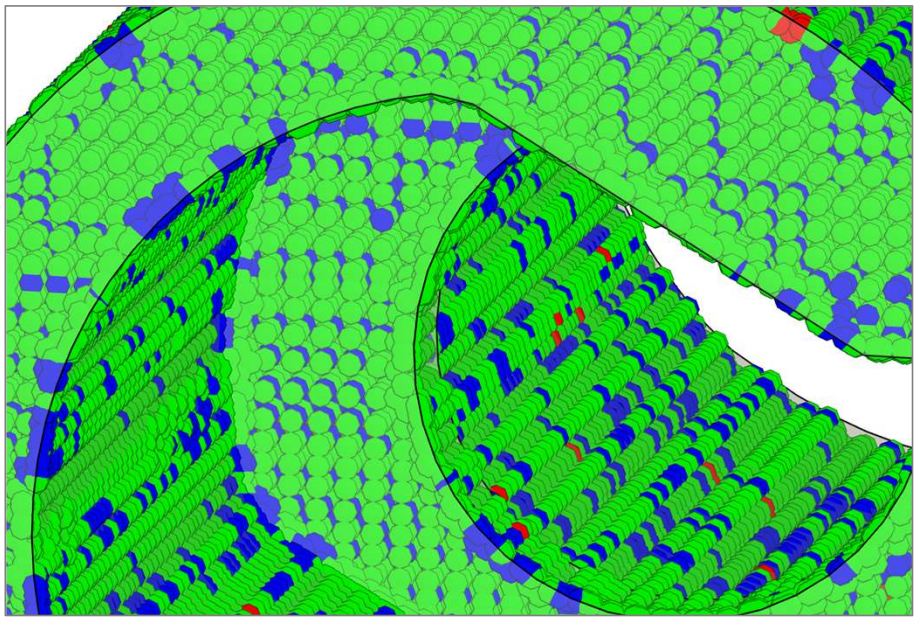




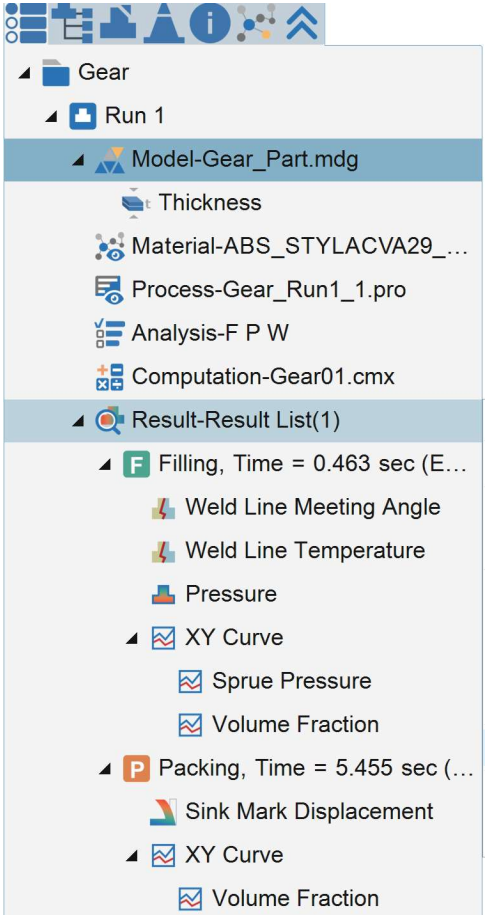
[Studio] Improve Fiber and Flake Result Display

- New 3D display for smooth calculation and optimized performance
  - Allow fiber orientation result display with ellipsoid
  - Improve for clearer and smooth display result on flakes when they stack in 3D view
  - For new result display, it requires the computer supporting OpenGL 4.3





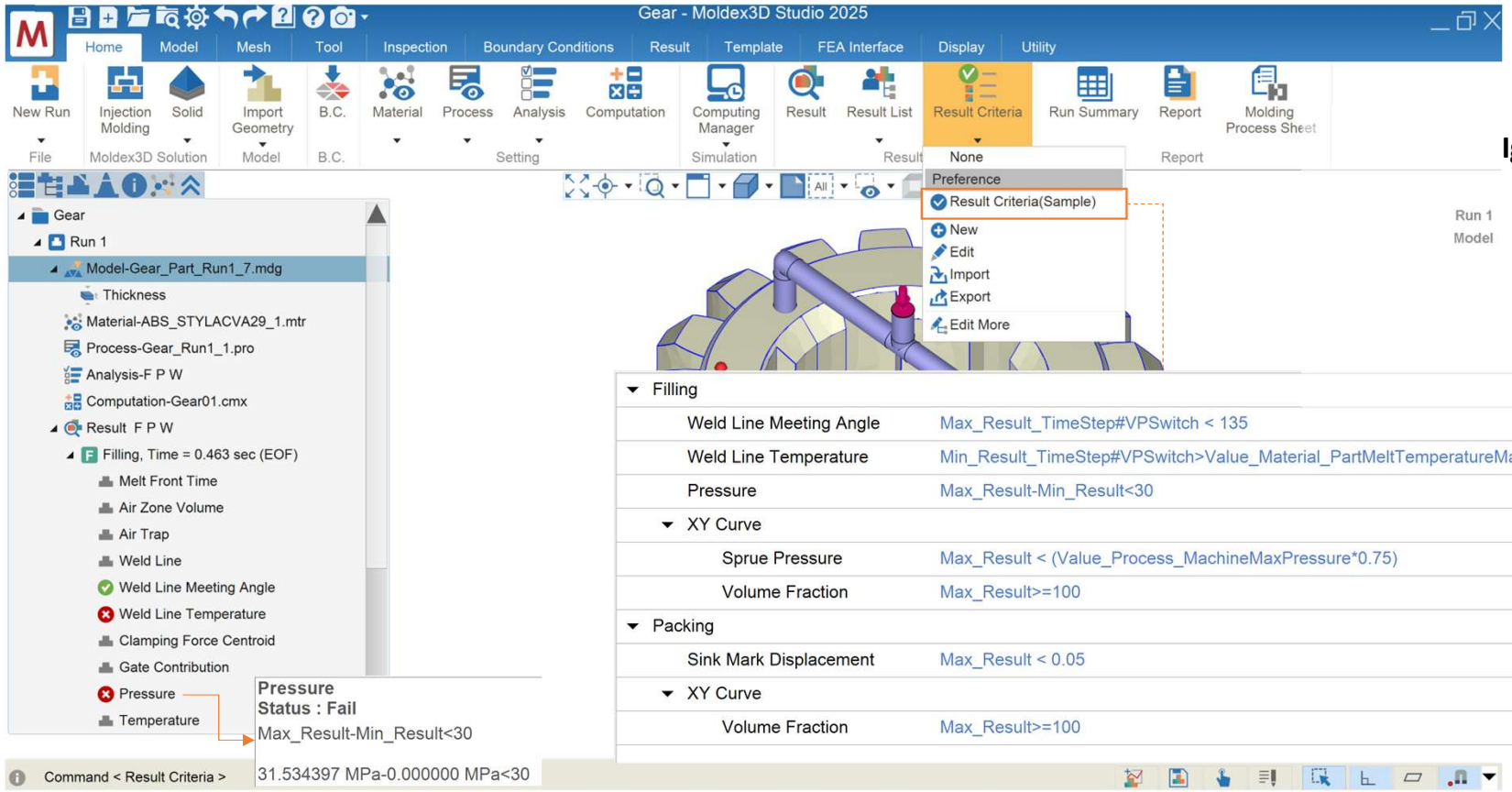
Do You Rely on a Manual Checklist to Validate Results?



Check Item	Rule	Status
Full Fill	Volume fraction >= 100%	V
Pressure Drop	<30 MPa	V
....		

Result Criteria – Automate Your Standard Checks!

- Define your own criteria for result interpretation.
- Instantly validate multiple results at a glance.

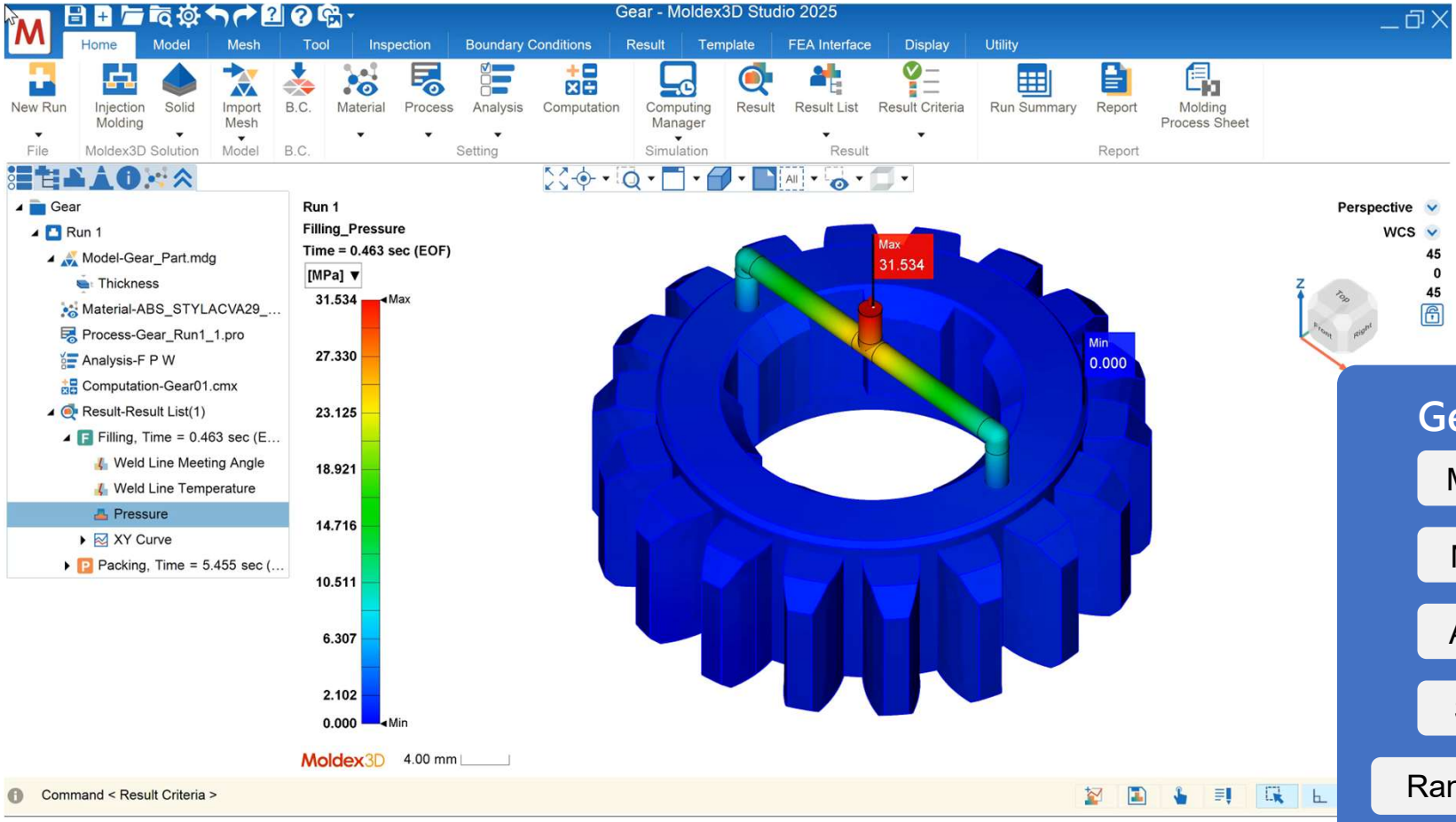


Ignore

Pass

Fail

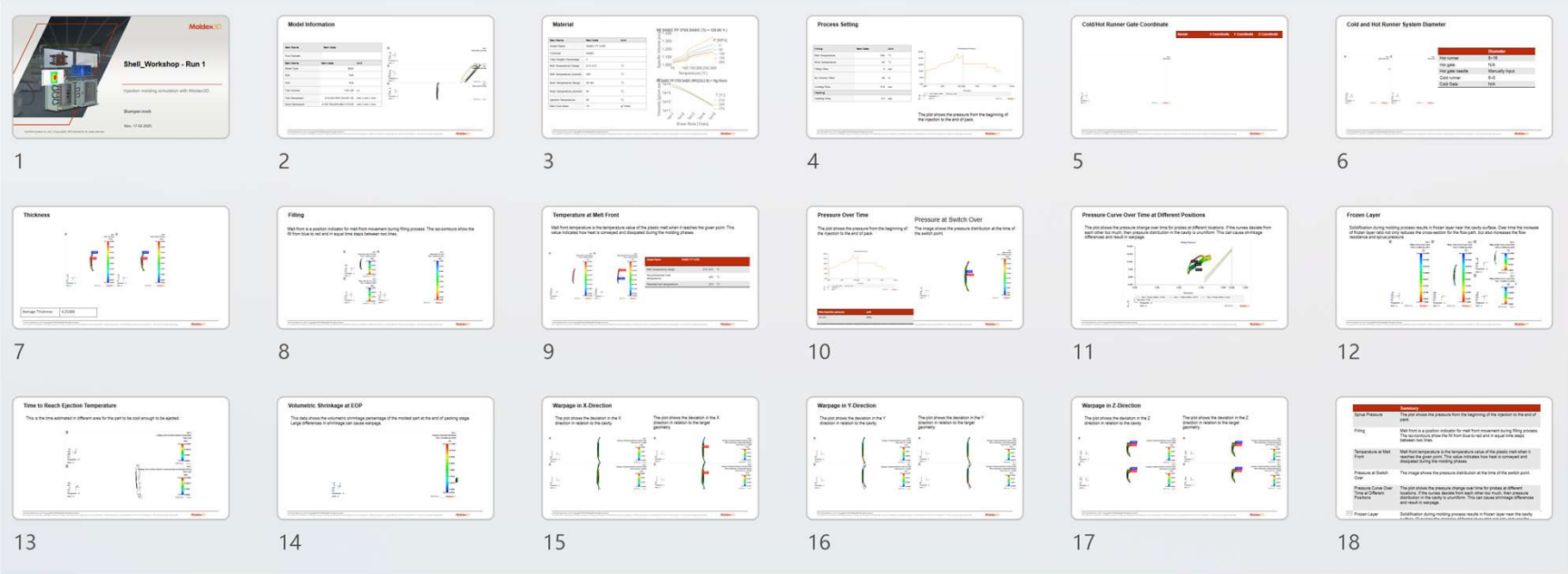
How to Create Result Criteria



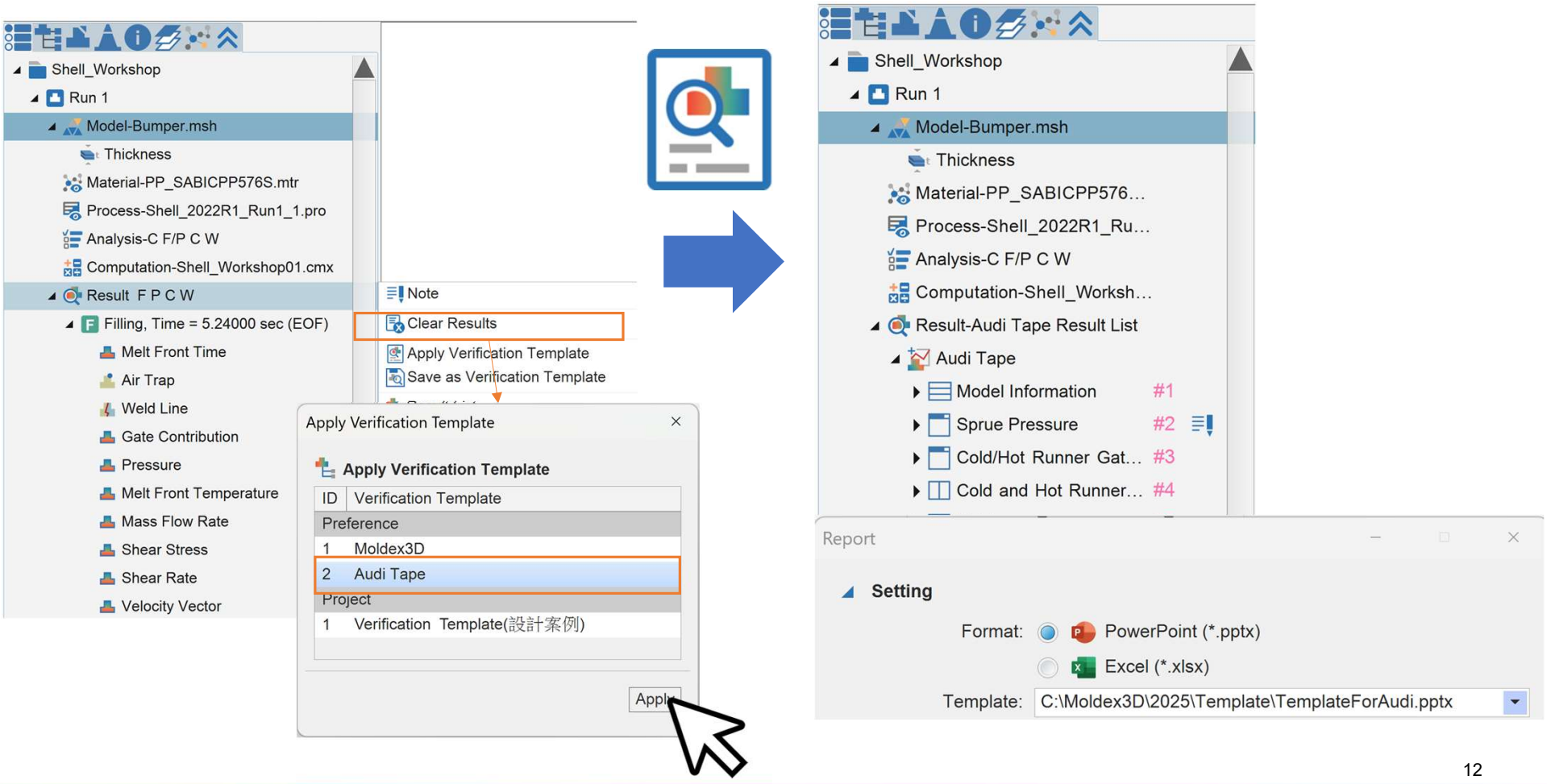
General Tag

- Max_Result
- Min_Result
- Avg_Result
- SD_Result
- RangeDiff_Result

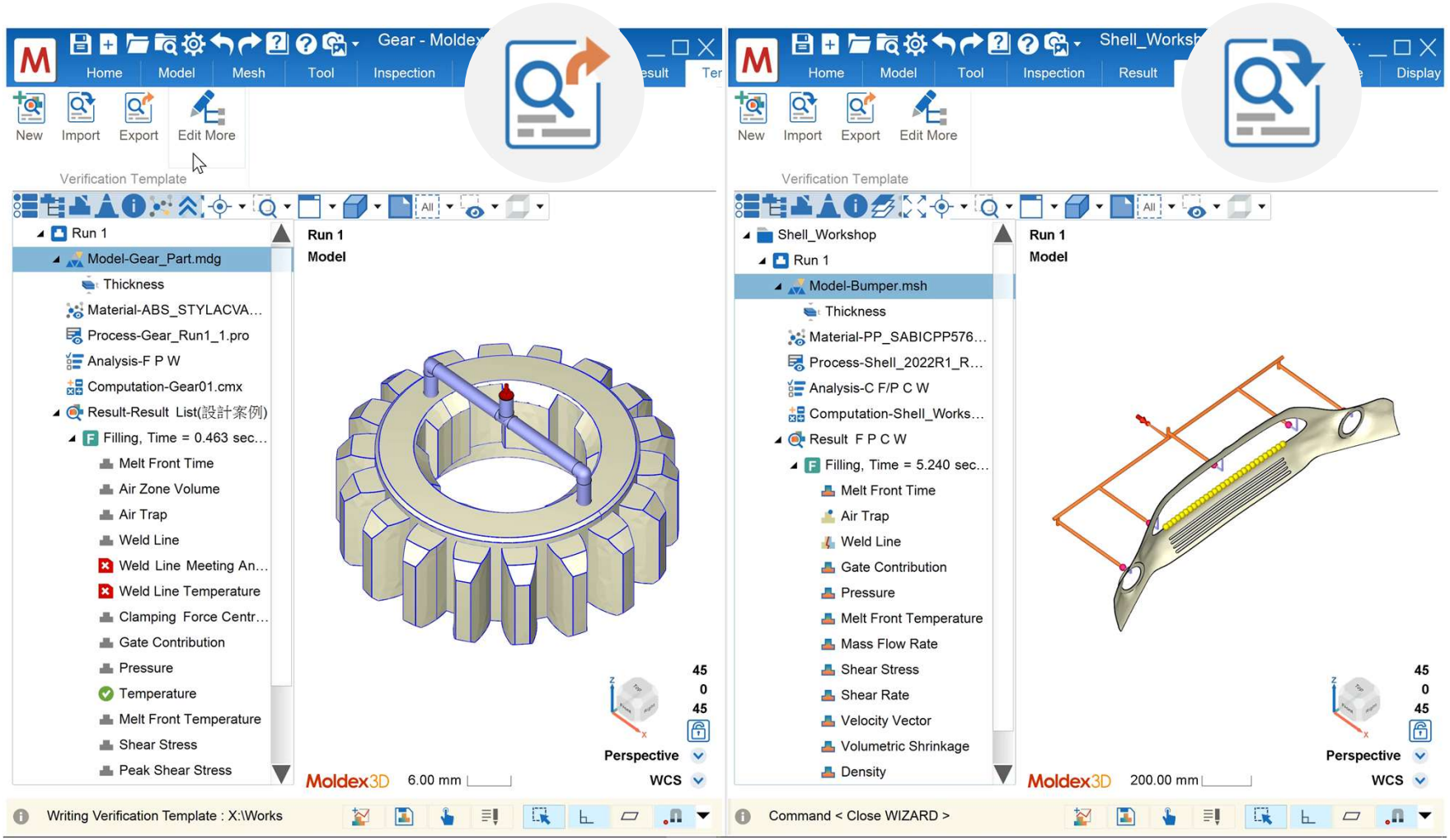
When Your Buyer Requests a Report in a Specific Format...



Easily Generate Reports That Fit Buyer's Requirements



Export & Import: Share Your Verification Templates Effortlessly



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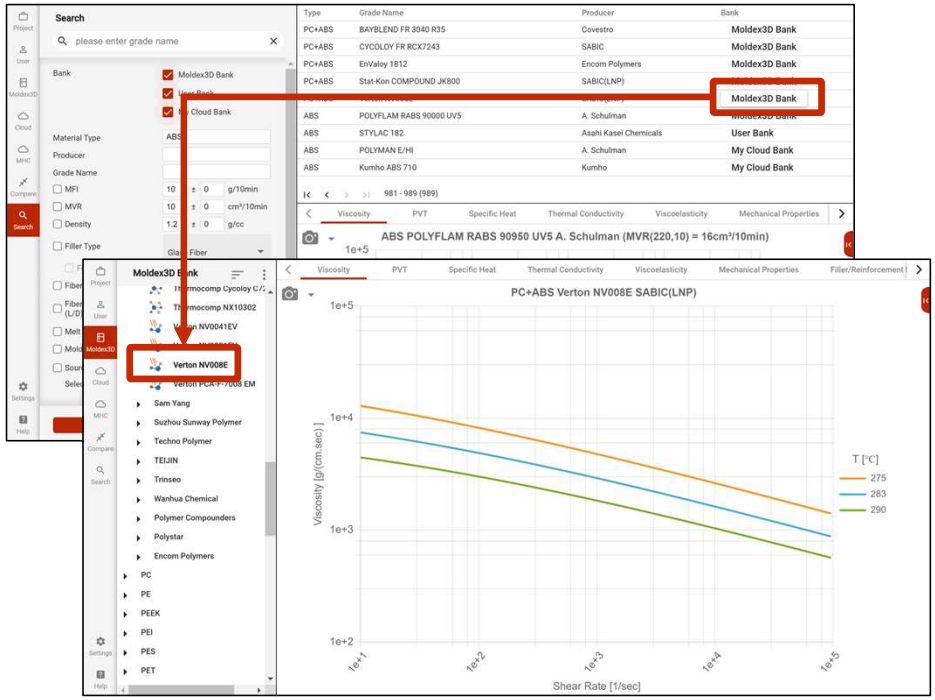
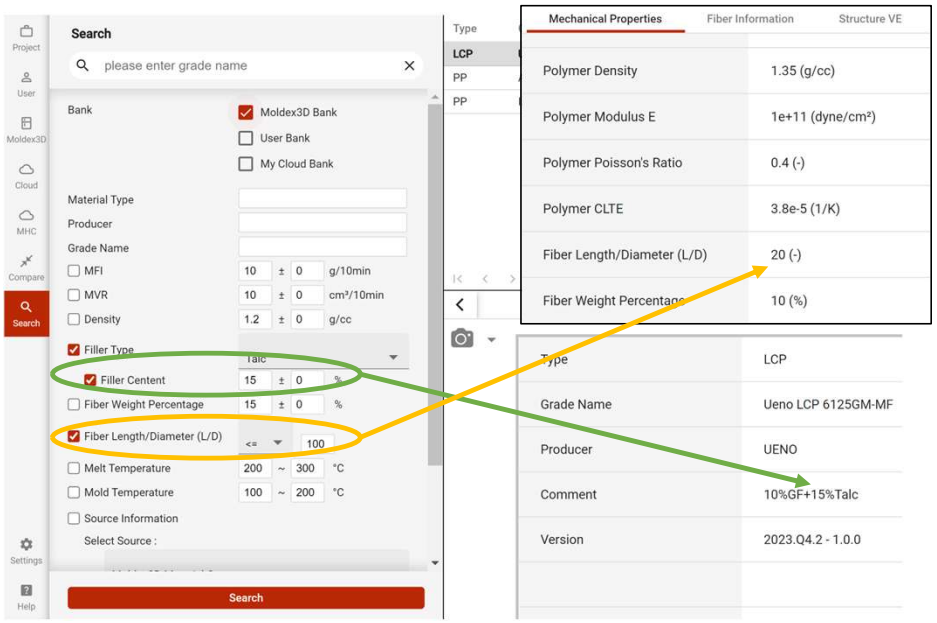
Usability improvement

Enhance User Experience when Navigating Materials

- Allow direct navigation from search results to target bank location
- Support searching material by different filler content and fiber L/D ratio





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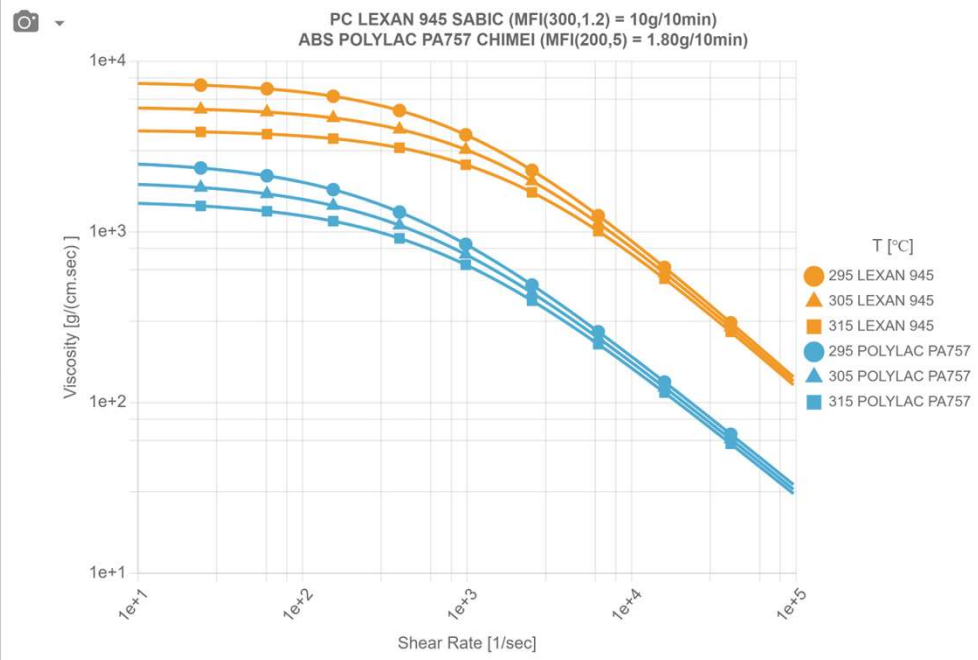
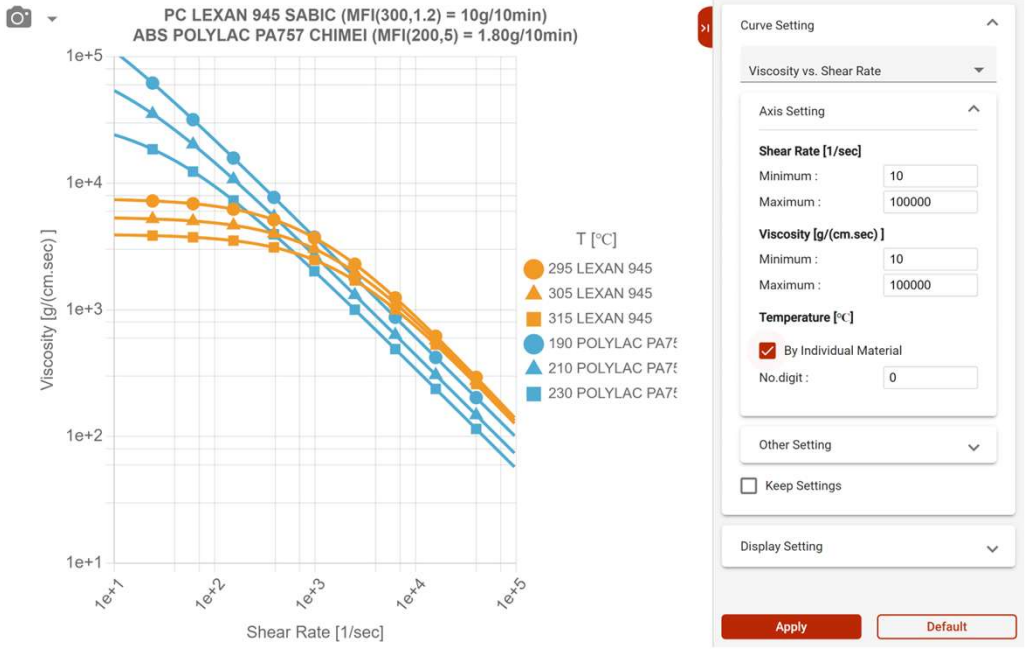
The temperature setting range can be asynchronous when comparing different types of materials

Before: Unified temperature setting range for all materials

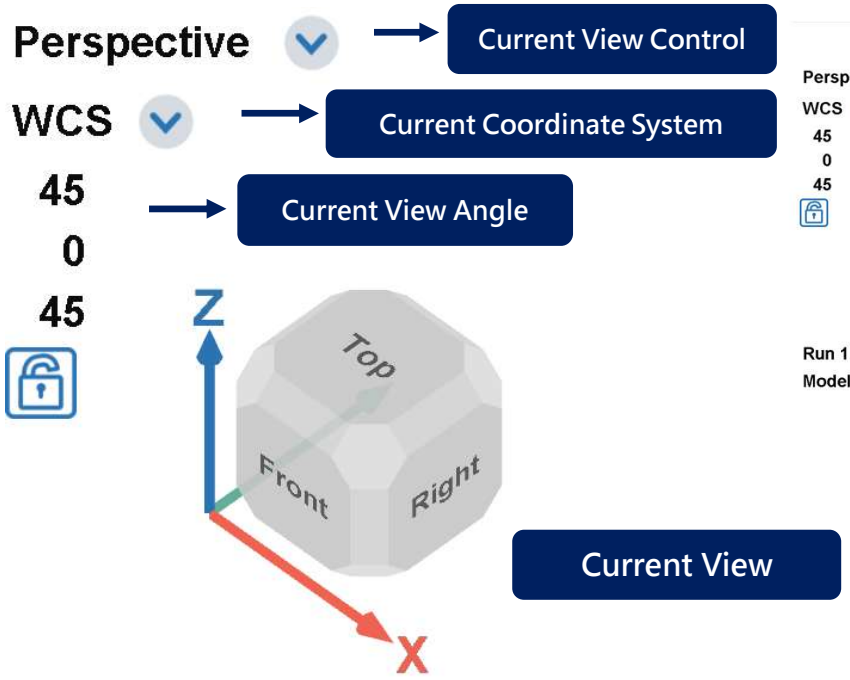


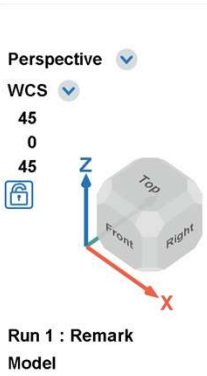
After: temperature under melt temp range

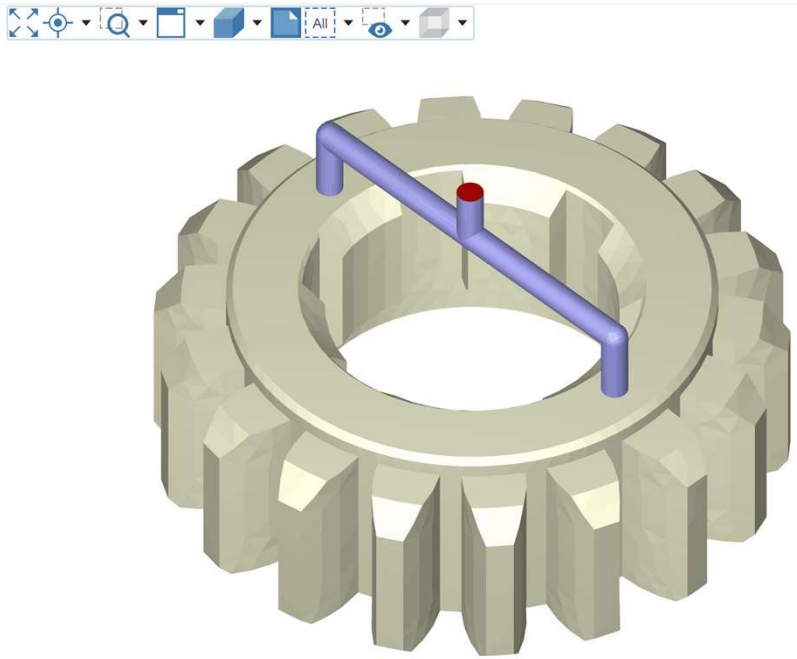


Revamp View and Coordinate Control Functions

- Add View Cube for smooth and interactive view control
- Enhance view and coordinate control with new design layout

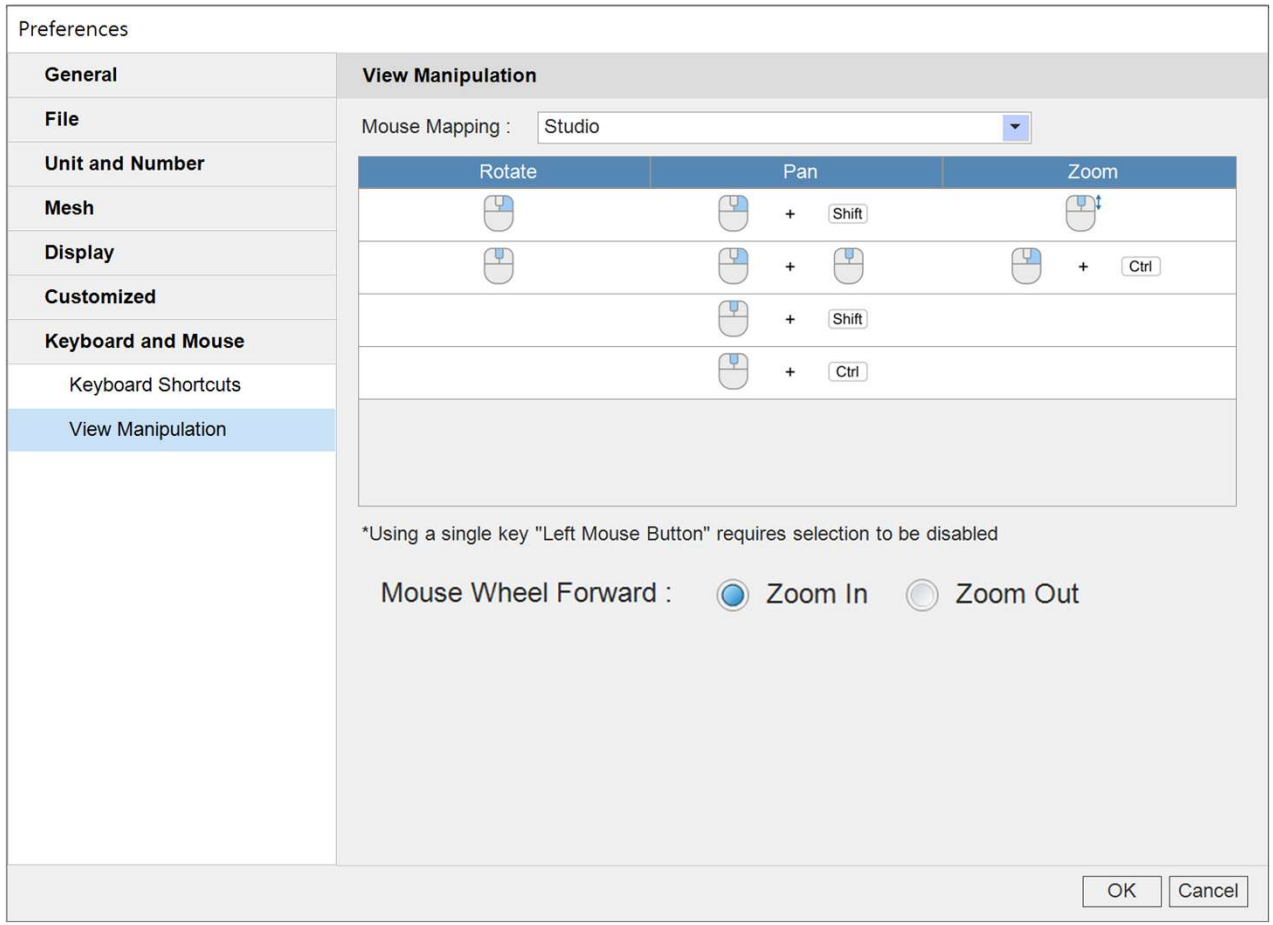




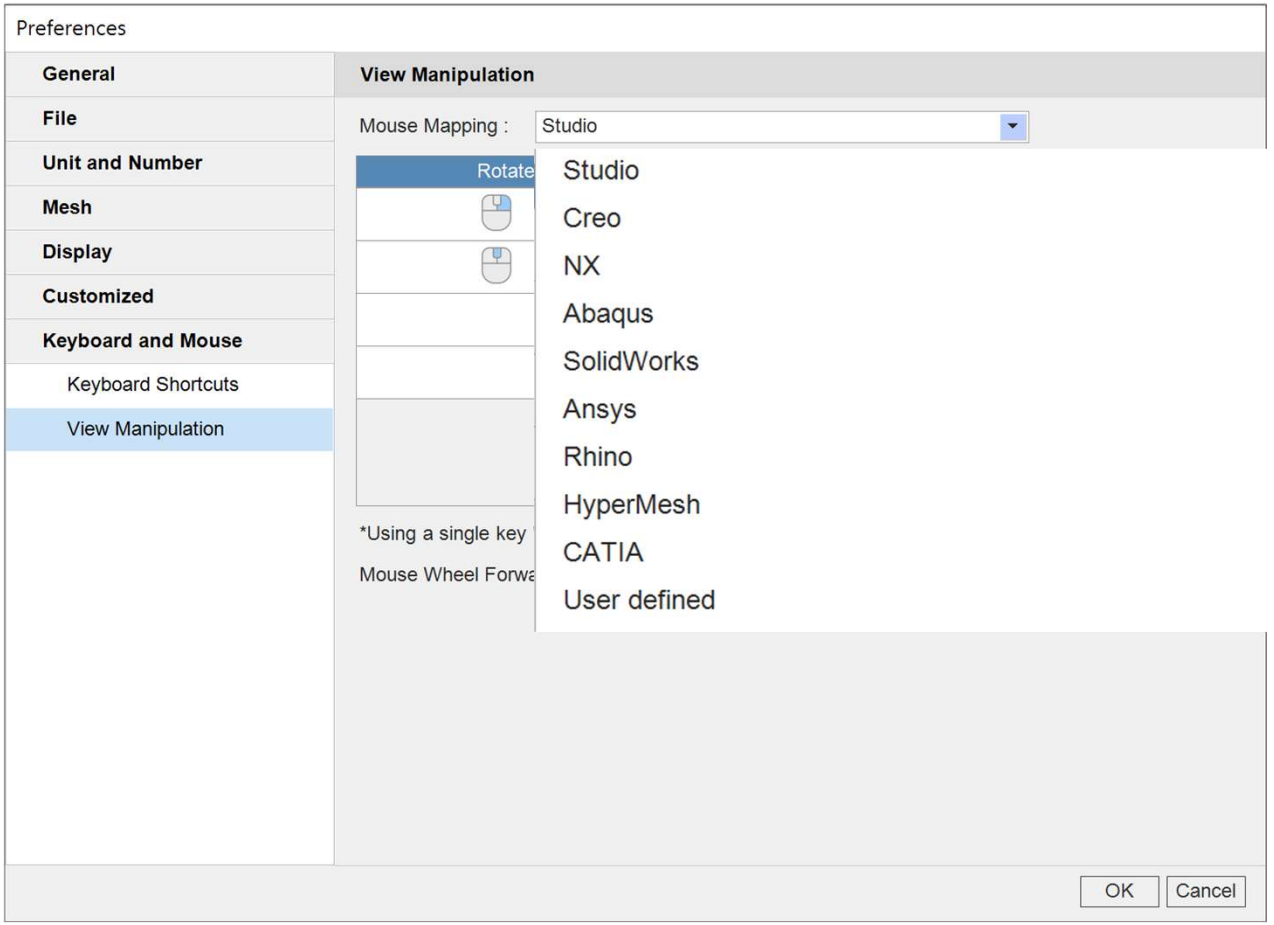


When the mouse wheel forwards in Studio, does it mean Zoom in or Zoom out?

Zoom In or Zoom Out? You Decide!



Rotate, Pan, Zoom – Use the Mouse Controls You Know and Love



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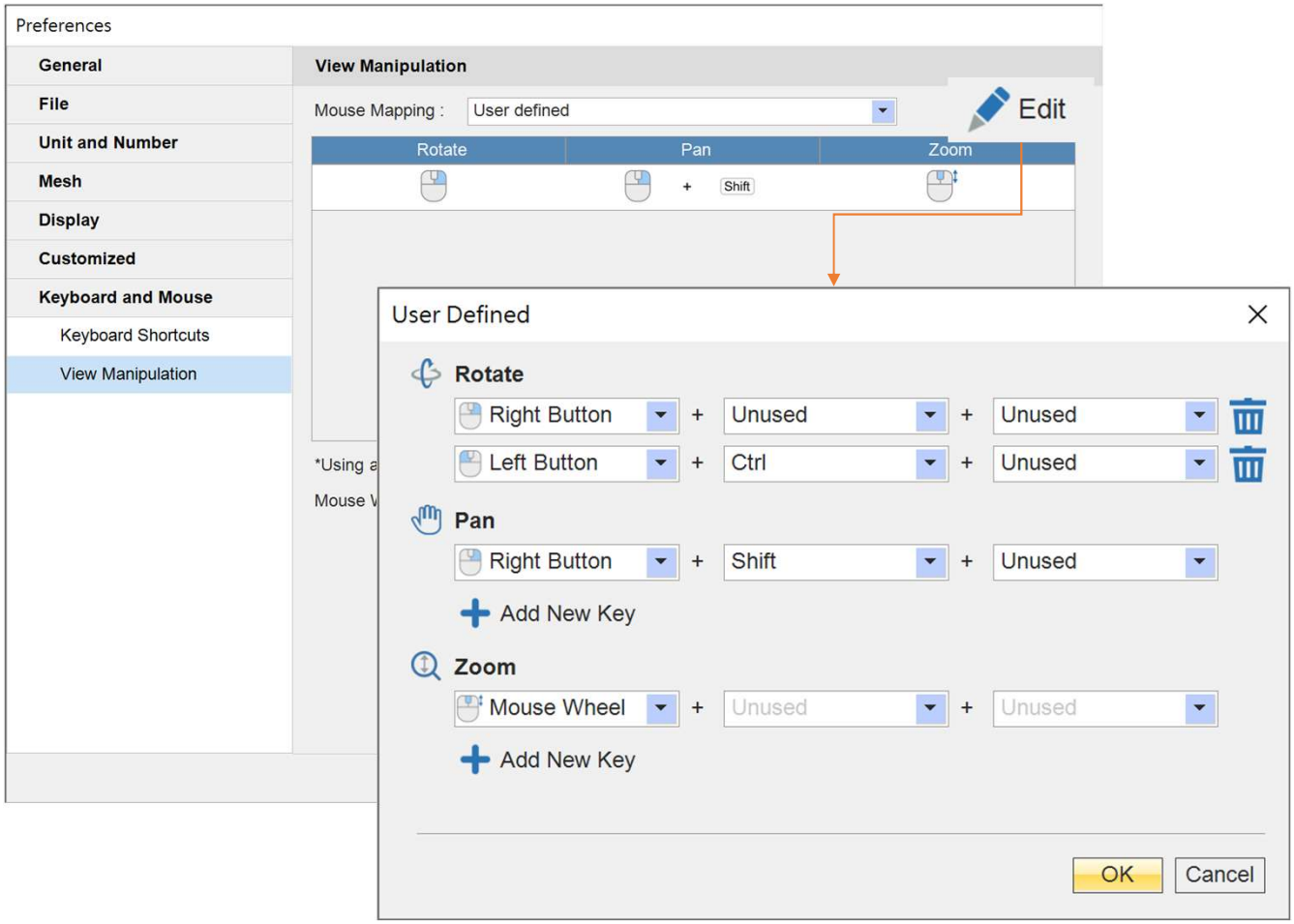
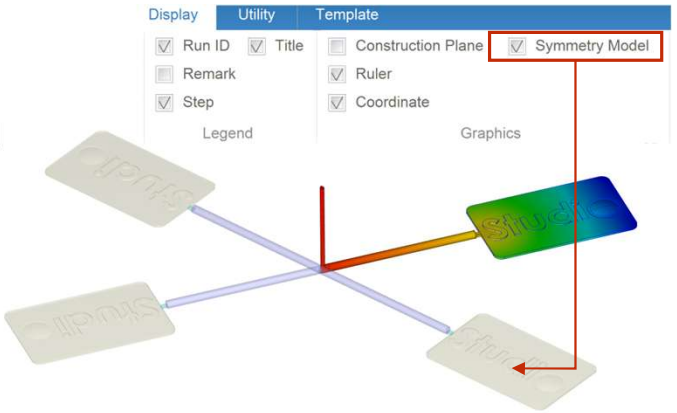
Nothing Fits?
Tailor Your Perfect Mouse Settings!

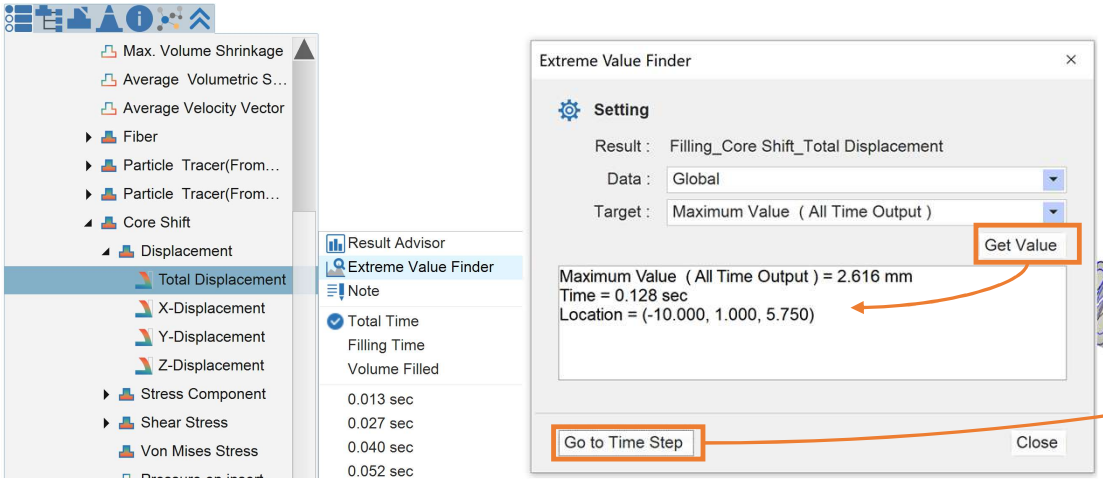


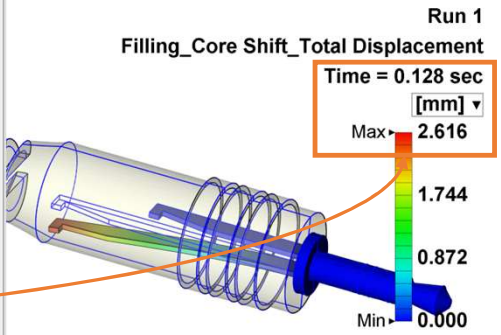
Enhance Result Display for More User Settings

- Provide option in Display tab to enable/disable symmetry display
  - Support symmetry setting in result and report display



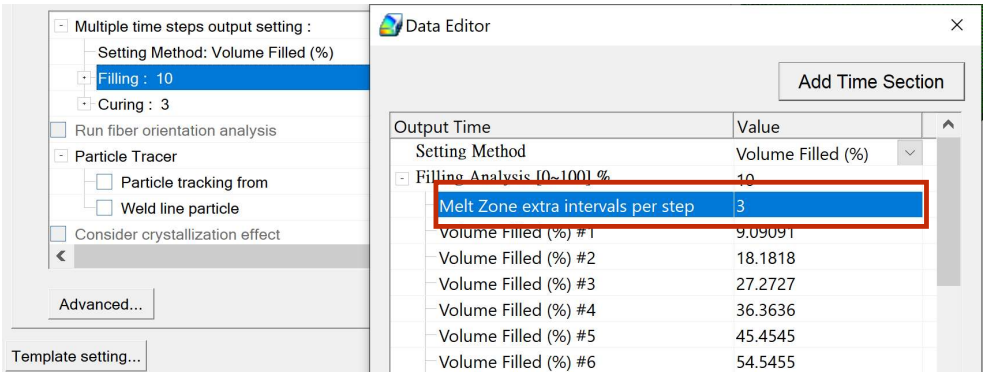
- Add Extreme Value Finder to target critical phenome
  - Find specific value from result statics and show its time and location

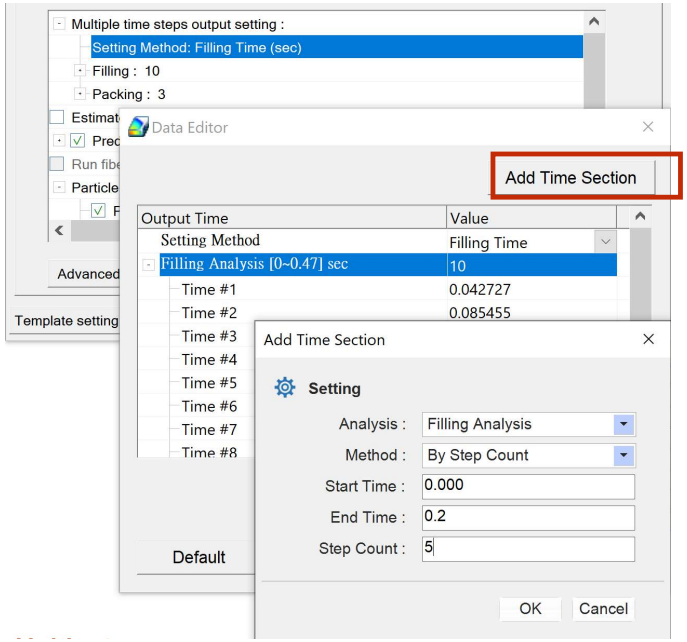




[Computation Parameter] Allow Customized Time Step Refine

- ✓ No need for manual calculations or Excel
- ✓ Options for dividing by step count or step size
- ✓ Support setting with volume filled (%)
- ✓ Easy to focus on what matters, even during Extend Packing





Support time section: Filling, packing/curing, foaming, cooling, opening, post mold cure, wire-sweep

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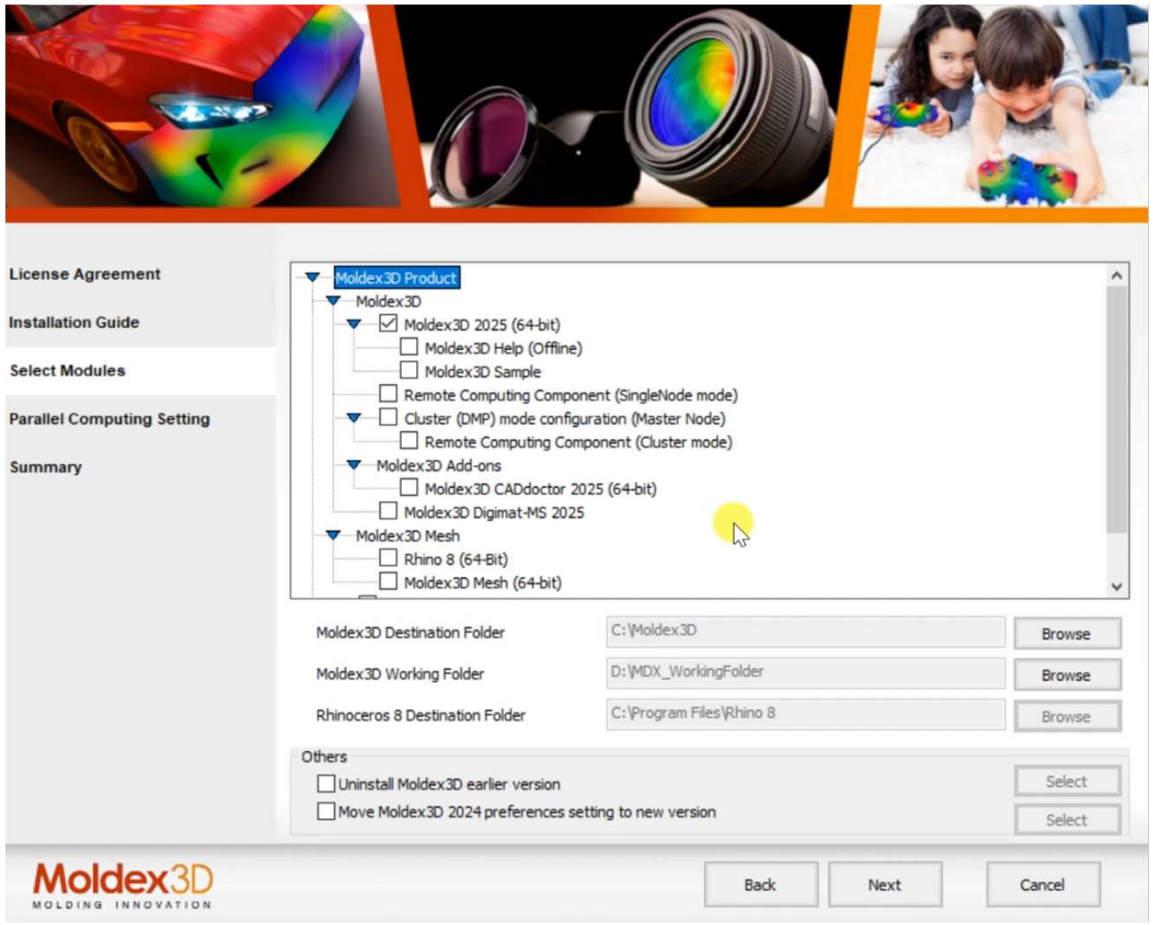
Moldex3D Studio

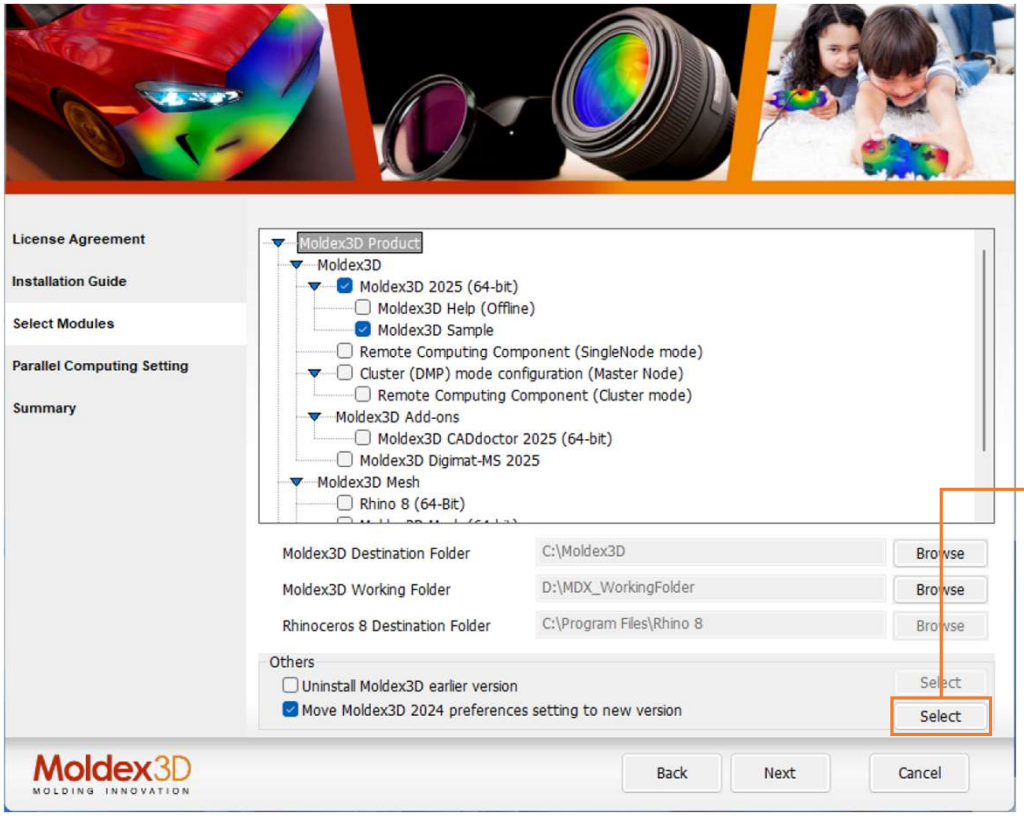
Lightweight

✅ Seamless upgrade



Installing Studio 2025?
It automatically removes old versions to free up space!

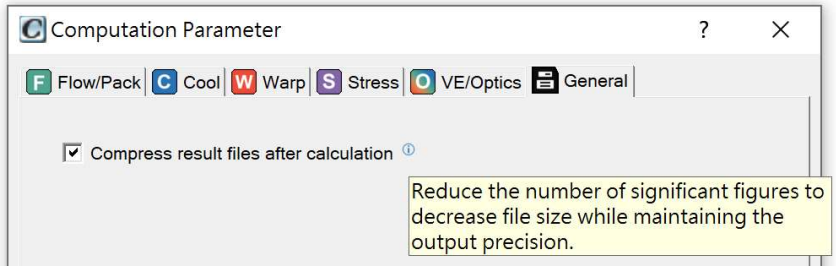
✅ Smooth transition



Your custom settings from 2024? They come with you—no extra setup needed!

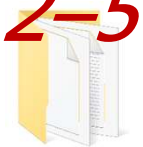
- ✅ Preferences of Studio, Material Wizard, and Process Wizard
- ✅ Material User Bank
- ✅ Machine User Bank

Smaller Files, Bigger Savings

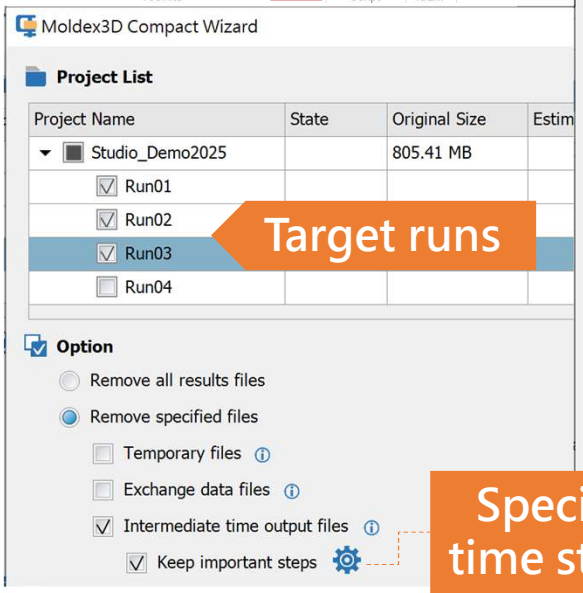


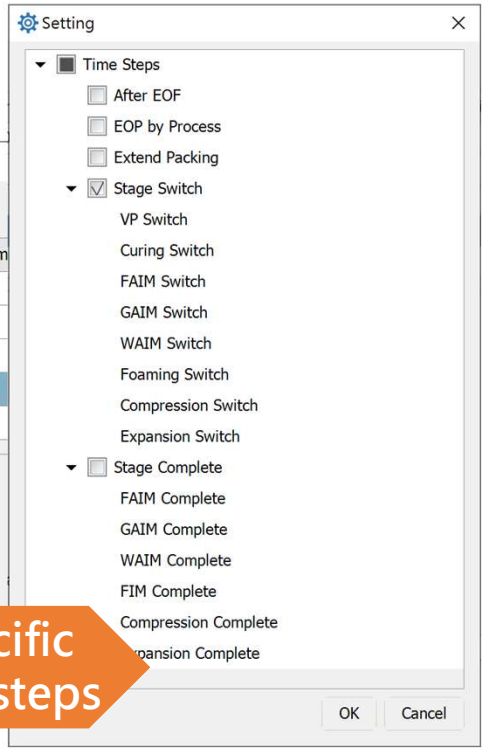
Run Folder

Reduce size by 2–5×



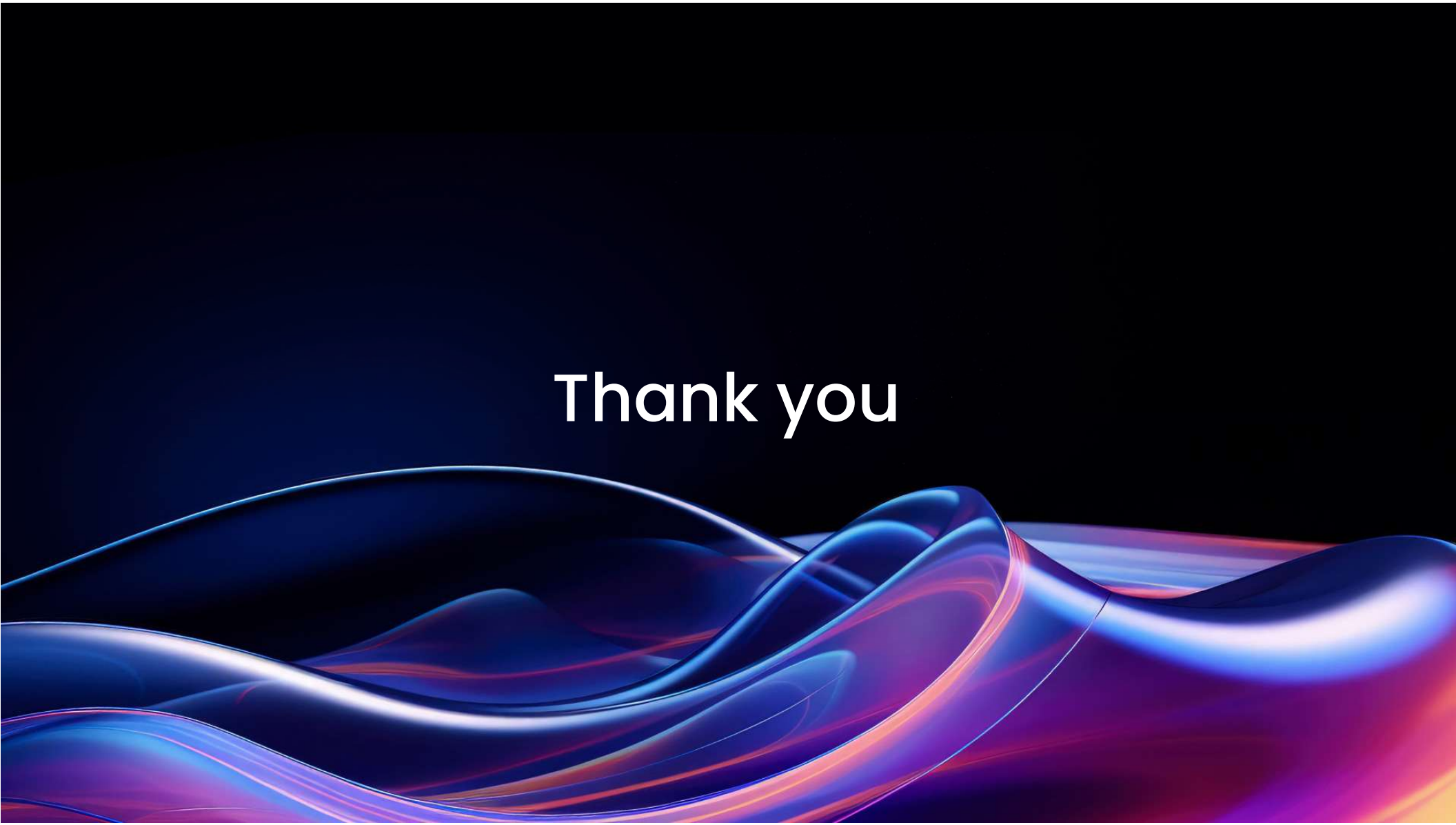
Run Folder





1. Adjust output precision to reduce result file size.

2. Selectively retain essential project data.


Thank you