



PRODUCT SPECIFICATIONS

Geometry Type

Surface : Mid-Surface Model
Shell3D : Solid Shell Model
Solid3D : Solid Model

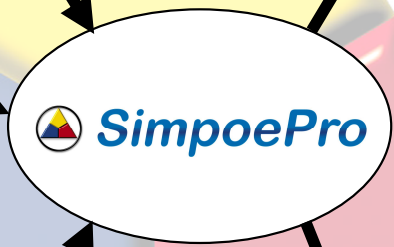
File Formats

CAD:
Pro/ENGINEER Files, Parasolid, STEP, IGES, CADAM etc... Automatic Meshing

FEM:
Output: Nastran, Abaqus
Mesh Quality Control Tools

Basic Parameters

- **Plastic Materials:**
Built-in and customizable plastic materials data bank
- **Injection process controlling parameters:**
Flow rate or Time control
Resin melt and mold wall temperatures.
Injection press maximum pressure & maximum flow rate
- **Definition of injection gates**, runners and cooling channels
- Co-Injection, Fibers, Multi-Domains, Inserts.



Filling/Packing Results

Filling/Packing :
Melt front, with dynamic display.
Pressure at filling end.
Average, central, bulk temperatures.
Shear stress and shear rate.
Shrinkage.
Gate(s) location(s) optimization .
Perfect cooling time*.
Sink Marks positions*.
Weld lines.
Air traps.
Skin and core fibers orientation. * requires PACK

FILL + PACK Modules

General Results

General:
Profile curves on user-defined nodes.
Flow rate, pressure and clamping forces curves.

Clipping planes and Iso-Surfaces.

Automatic generation of HTML, PPT and Word reports, including data, graphs, animations, images and numerical results.



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Packing Parameters

Filling/Packing analysis switch
Pressure holding time (absolute or relative profile)
Fiber percentage
Co-injection, Gas and Water Assisted Injection

Cooling Parameters

Thermal regulation parameters:

Built-in and customizable mold material library (aluminum, copper and steel alloys) and coolant fluid library (oil, water...).

Melt temperature
Coolant temperature
Mold opening time
Ejection temperature
Mold surfaces temperatures

Cooling channels and runners built-in editor :
Geometry, diameters and meshing.
Coolant temperature and flow rate .

Warp Parameters

Warpage simulation parameters :

Ambient temperature
Gravity

Cooling Results

Thermal regulation:

Part cooling time
Part temperature at end of cooling.
Mold temperature
Mold heat transfer flux.

COOL Module

Warp Results

Warpage :

X,Y and Z warpage displacements (absolute and user defined reference frames)
Resulting displacement and superposition on original part.
Warpage measurement between two user-defined nodes.
Sink Marks values.
Deformed & Counter-deformed geometry output file.
Deformed geometry output file: STL, Nastran & Abaqus file formats.

WARP Module

