



SIMPOE-MOLD

**SIMPOE-MOLD® ADVANCED PACKAGE
B-Style***

Specifications

1- Input Format :

Import of STL CAD model files (Catia, Pro/ENGINEER, SolidWorks, Solid Edge, Unigraphics, Inventor) with **automatic meshing**.
Built-in mesh file checker.
Import of surface mesh under NASTRAN format.

2- User defined input parameters.

Built-in **and customizable** plastic material data bank
Built-in and customizable mold material library (aluminium, copper and steel alloys)
and coolant fluid library (oil, water).

Injection process controlling parameters:

Flow rate or pressure absolute or relative profile

Resin melt and mold wall temperatures.

Injection press maximum pressure

Injection press maximum flow rate

Filling/Packing analysis switch

Pressure holding time

Fiber percentage

Co-injection

Thermal regulation parameters:

Melt temperature

Coolant temperature

Mold opening time

Ejection temperature

Cooling channels and runners built-in editor :

Geometry, diameters and meshing.

Coolant temperature and flow rate .

Warpage simulation parameters :

Ambient temperature

Gravity

Definition of injection gates and runners and cooling channels.

** SIMPOE-MOLD B-Style software can be used for the analysis of the vast majority of plastic injected parts.
For very thin, or completely full parts, other SIMPOE-MOLD softwares may be more appropriate.*



SIMPOE-MOLD

3- Analysis results.

Filling/Packing :

Melt front, with dynamic display.

Pressure at filling end .

Surface, average, central and bulk temperatures.

Shear stress and shear rate

Shrinkage

Gate location optimization index.

Perfect cooling time

Weld lines

Air traps

Skin and core fibers orientation

Thermal regulation:

Part cooling time

Part temperature at end of cooling.

Mold temperature

Mold heat transfer flux.

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.

Profile curves on user defined nodes.

Flow rate, pressure and clamping forces curves.

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