



SIMPOE-MOLD

**SIMPOE-MOLD® PROFESSIONAL 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 .

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.*



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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.

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.