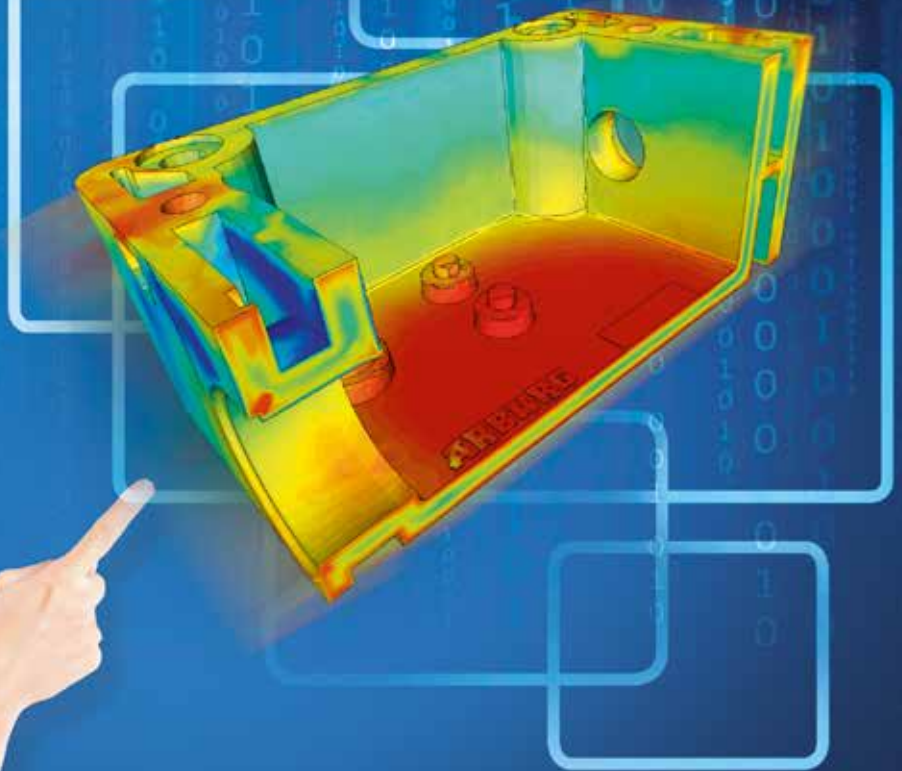


CADMOULD®

3D-F SIMULATION



Part: ARBURG GmbH + Co KG, Lößburg, Germany

FOAM

ADD-ON SOFTWARE FOR THE DESIGN OF
FOAM INJECTION MOLDED PARTS

THE EXPERT SOFTWARE FOR SIMULATION OF FOAM INJECTION MOLDING

CADMOULD® GUARANTEE

3D-F Precision

- ✓ EXACT RESULTS
- ✓ AUTOMATIC MESHING
- ✓ FAST CALCULATION

■ ADD-ON SOFTWARE FOR THE DESIGN OF FOAM INJECTION MOLDED PARTS

YOUR EXPERT SOFTWARE FOR SIMULATION OF THE FOAM INJECTION MOLDING PROCESS

Cadmould® 3D-F Foam is an add-on software for Fill or Warp Expert of the Cadmould® 3D-F Expert product line. It offers the possibility to simulate all foam injection molding processes with thermoplastic materials. Physical as well as chemical blowing agents can be considered such that all foam injection molded components can be designed at high accuracy.

Foam is part of the Cadmould® 3D-F-product family that has been developed in Germany successfully for more than 25 years. Cadmould® 3D-F uses the highly precise 3D-F method developed by Simcon especially for injection molding simulation, making Cadmould® 3D-F the superior simulations solution.

THE FOAM PERFORMANCE FEATURES

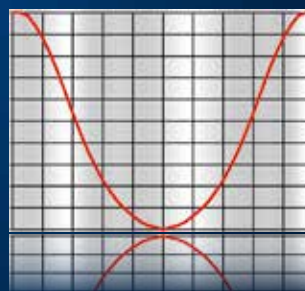
- Simulates the expansion of the blowing agent during the foaming process
- Simulates all commonly used commercial foam injection moulding processes (MuCell®, Optifoam® etc.)*
- Simulates shrinkage and warpage
- Simulates both parts with low and high degree of foaming
- Simulates the bubble growth in the melt
- Calculates the local change of density and volume
- Considers the influence of the foam on the viscosity during the filling process
- Displays results animated and in 3D cuts

THE FOAM BENEFIT

- Complete analysis of the foam injection molding process
- Optimum utilisation of all advantages of foam injection molding
- Reduction of part weight
- Reduction of cycle time
- Reduction of shrinkage and warpage
- Reduction of necessary clamping force

THE FOAM ADVANTAGES IN THE WORK PROCESS

- Integrated additional material data base for simulating the foam injection molding process
- Interactive optimisation of part, mold and process during foam injection molding
- Automatic report generator: HTML, MS® Word, MS® PowerPoint®



Simulation of the density distribution in a foam injection molded electric housing

AREAS OF APPLICATION:

- Design of foam injection molded parts (MuCell®, Optifoam® etc.)*
- Optimization of part, mold and process for foam injection molding

TYPE OF PRODUCT:

- Add-on software of the Cadmould® 3D-F expert product line, suitable for Windows® operating systems
- Can be used with Cadmould® 3D-F Fill or Warp Expert