

simcon news



Events:

17th and 18th March 2010

VDI Plastics Technology, international conference and exhibition, special exhibition: Simulation of plastic parts for automotive industry, Mannheim, Germany

Seminar dates:

CADMOULD® 3D-F RAPID seminar dates Germany:

23 rd March 2010	Karlsruhe
25 th March 2010	Nürnberg
13 th April 2010	Weimar
28 th April 2010	Würselen, <i>simcon</i>
4 th May 2010	Bad Salzufflen

25th June 2010

14th Engelskirchener Plastics Technology day
Engelskirchen, Germany

27th October till 3rd November 2010

K2010 - International Trade Fair No. 1 for Plastics and Rubber Worldwide, Düsseldorf, Germany

Hall 11

Booth No. 11F21

ATTENTION!
We have a new telephone number:

Fon +49 (0) 2405 64 571 -0
Fax +49 (0) 2405 64 571 -20

Simcon at Swiss Plastics CADMOULD® 3D-F RAPID Seminar in Rapperswil

From 19th till 21st January the Swiss plastics CADMOULD® very successfully trade fair took place in Luzern.

The 2nd Swiss Plastics with 240 exhibitors and more than 4000 visitors was bigger than in



the year before. Pontos GmbH the responsible sales company in Switzerland presented

Based on the high demand in Switzerland, a CADMOULD® 3D-F RAPID Seminar took place on 24th February 2010 at the university for technology (HSR) at the institute of materials and polymer processing in Rapperswil (Switzerland).

All participants received a 4 week licence of the full edition of CADMOULD® 3D-F RAPID .

The participants said they were very satisfied with the seminar.

CADMOULD® seminars now Germany-wide

From now on seminars will be offered Germany-wide. All participants will receive a 4 week evaluation licence of the full edition of CADMOULD® 3D-F RAPID. The first Germany-tour will start on 23rd March 2010 in Karlsruhe, followed by the seminar in Nürnberg dated 25th March 2010, Weimar (13th April 2010), Würselen (*simcon*, 28th

April 2010) and Bad Salzufflen dated 4th May 2010.

Please find detailed information and application forms to all seminars on our website www.simcon-worldwide.com

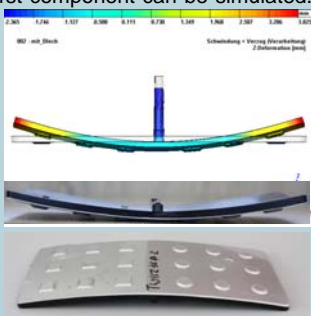


CADMOULD® 3D-F 2K & INSERT

CADMOULD® 3D-F 2K & INSERT is the newest module of CADMOULD® to support injection moulders, mould maker and designers in developing and producing 2-component parts. CADMOULD® 3D-F 2K & INSERT can be used for 2- or multiple colour-, 2- or multiple component injection moulding or for parts with inserts. It adds to the modules 3D-F FILL or 3D-F WARP EXPERT (+COOL).

With CADMOULD® 3D-F 2K & INSERT initial temperature profiles can be imported from previous shots like e.g. in turntable moulds and slide moulds or they can be preset for pre-heated inserts. The temperature exchange of all components is taken into account. This way effects like easier filling resulting from the thermal isolation by the overinjected first component can be simulated.

In the same way optimal process parameters can be predicted to create sufficient re-melting of the first component however avoiding erosion of the first component by the injected hot second component.



Comparison of simulated and real warpage of an overinjected aluminium plate

Mechanical coupling of the single components

For shrinkage and warpage the influence of each single component on the whole part can be calculated by considering the mechanical coupling of the components at their common contact area.

CADMOULD® 3D-F 2K & INSERT detects the common contact areas of the components automatically.

In addition fibre orientations and temperature distributions of all components can now be considered in shrinkage and warpage calculations. Version 4.1, which will be shipped in March 2010, will also take internal stresses resulting from previous shots into account.

Users' benefits

In 2-component injection moulding processes test shots and mould changes are very complex and costly. CADMOULD® 3D-F 2K & INSERT supports the user in cutting costs and development time

Thanks:

CADMOULD® 3D-F 2K & INSERT is based on developments which were carried out in the sixth framework program "Collective Research" funded by the European Commission.



Injection moulding simulation

Tips & Tricks

Symmetric tools

Multiple cavities, which are placed symmetrically, can be calculated faster with the help of a symmetry precept.

Always just one part or area is calculated, the results will be transferred to the symmetric parts or areas.

Of course the correct volume flow into each symmetric part or area runner will be considered. Symmetric parts or areas can be designed by

Edit
-> Geometry
-> Symmetry.

Engineering options for symmetries are:

- mirror
- rotate
- delete