

Events:

10th of June 2010
Pro Form Dortmund, Germany
Paper Dr. Filz (15:30-16:15 o'clock):
„Injection moulding simulation of multi component parts and parts with inserts“

23rd of June 2010
Supplier Innovative
Audi Forum
Ingolstadt, Germany

25th of June 2010
14th Engelskirchen
Plastics-Technology-Day
Engelskirchen, Germany



Seminar dates (Germany):

CADMOULD® 3D-F RAPID Seminar

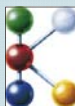
22nd of June 2010, Park Inn Hotel Bielefeld

19th August 2010, **simcon**, Würselen

21st of September 2010
CADMOULD® 3D-F User Meeting 2010

27th of Oktober - 3rd of November
2010

K 2010 International Trade Fair No. 1
for Plastics and Rubber worldwide



CADMOULD® 3D-F Update and 2K & Insert training

On the 4th, 5th and 6th of May 2010 the one-day CADMOULD® 3D-F Update trainings 2010 took place in combination with CADMOULD® 3D-F 2K & INSERT seminars.

Numerous CADMOULD® 3D-F users attended the trainings. They were briefed with the news in version 4.50 and learned about the advantages of the new module 2K & INSERT.

The participants were very satisfied with the seminars as they had additionally the possibility to ask application related questions besides the seminar issues.



Subsequently to the seminar all participants received a 4-week license for the full version of the module CADMOULD® 3D-F 2K & INSERT. By that they have the possibility to test the learned news at their own projects.



Pictures: Snapshots during the training in the **simcon** seminar room

Prediction of Sink Marks

Sink marks occurring on injection moulded parts are mostly undesired because of optical reasons.

CADMOULD® 3D-F is able to predict sink marks and visualise associated optical effects.

For this purpose the result "gradient of thickness shrinkage" can be used. These results contain information about the change of surface orientation caused by shrinkage in thickness direction. This change has direct influence on the angle of light reflection and by that on the optical properties of the sink mark.

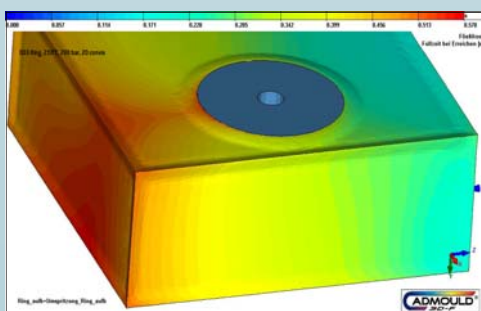
Fig. 1 shows a photograph of a test part used in the European project Pro4Plast*. The dimensions of the box are 40 mm x 40 mm x 15 mm at a wall thickness of 2.5 mm. The plastic material used is talcum filled, black pigmented polypropylene. To provoke the occurrence of sink marks the packing pressure was set to only 200 bars. The resulting sink marks evolving from the edges as well as the weld line left of the insert are clearly visible.

Fig. 2 shows the simulated part in comparison. CADMOULD® 3D-F is capable to pre-

dict and visualise the effect of sink marks on the part surface. Furthermore the displayed filling pattern underlines the predicted weld line.



Picture 1: Test part from above



Picture 2: sink marks + filling lines



Injection moulding simulation

Tips & Tricks

Same view of the part in different pictures

To get the same view of a part in different pictures (for example for comparison), you can save the views of the part.

For that purpose you have to click on the icon with the eye.



Afterwards the view gets a name and will be saved.

Views already saved can be retrieved by clicking on the eye icon and selecting the according view.

* Pro4Plast is a from the EU sponsored Collective Research Project Contractual Number COLL-CT-2006-030205