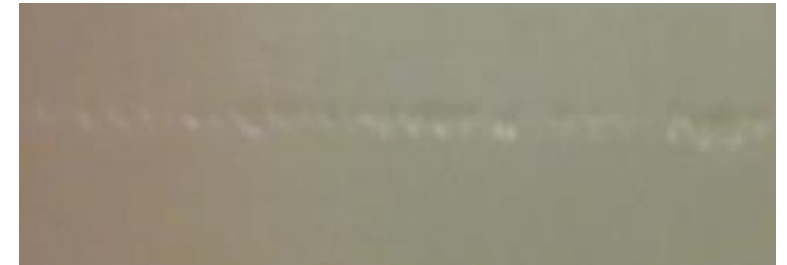# VLAIO TETRA
Machine Vision for Quality Control
(MV4QC)

Case 1 - Detection of surface damage on flat sheets - MCAM

Case 1 - Detection of surface damage on flat sheets

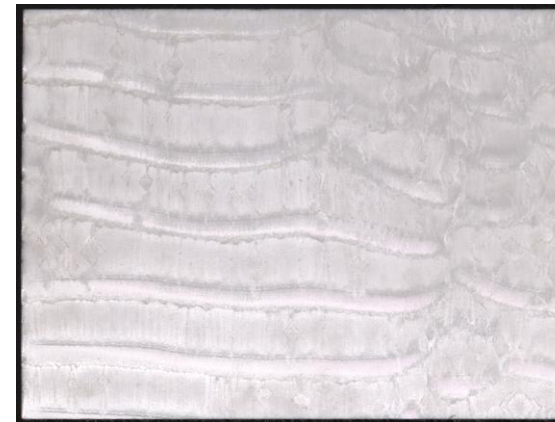Several defects occur when extruding polymer sheets

- Stick defects

- Damage on the sides

- Color deviations

Met de steun van

Case 1 - Detection of surface damage on flat sheets

Tests were done by Covicon. Some pictures of sample sheets were taken and some machine vision techniques were used.
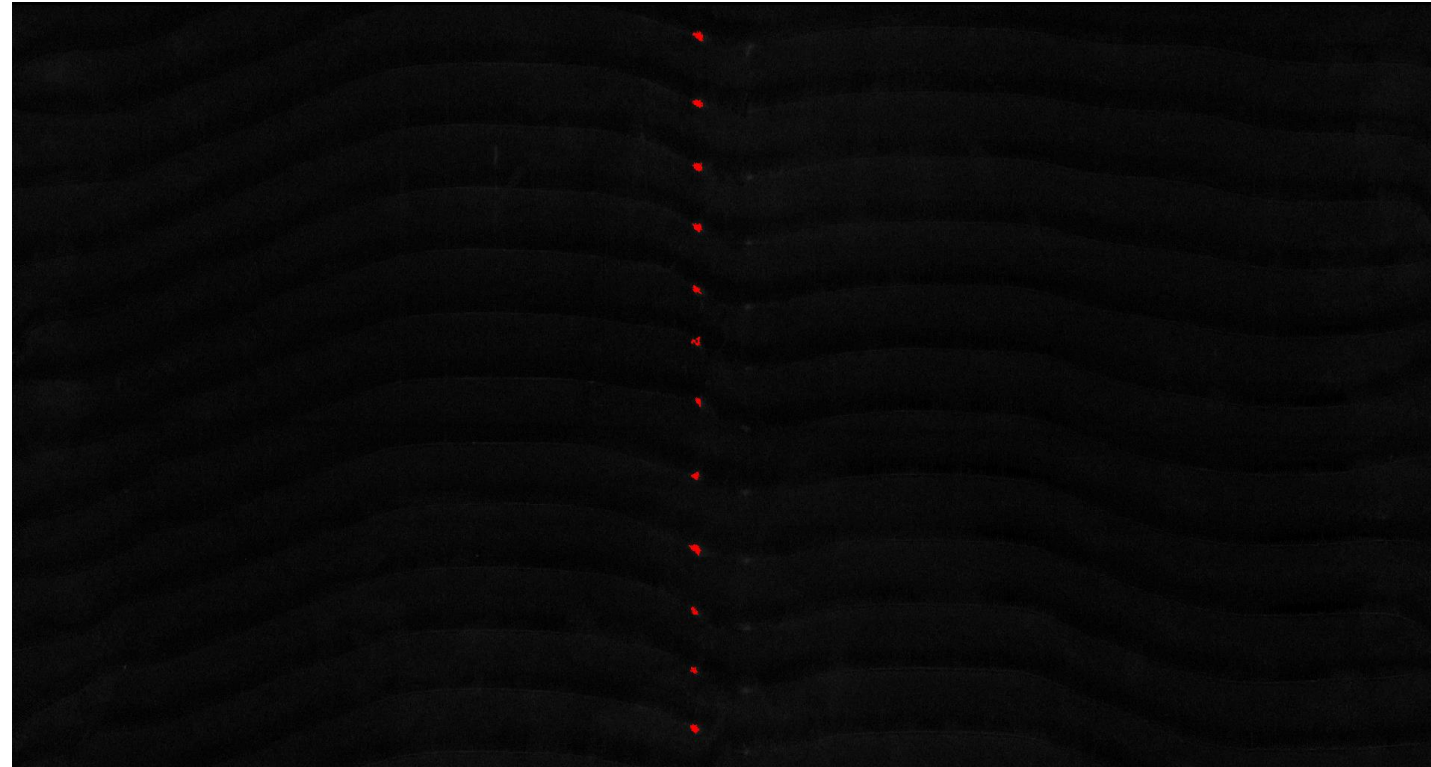
Images were taken with a 4k line camera (RGB) and a lens of 25mm. Resolution is 0.2mm/px and a metaphase line light was used with white collimated light.

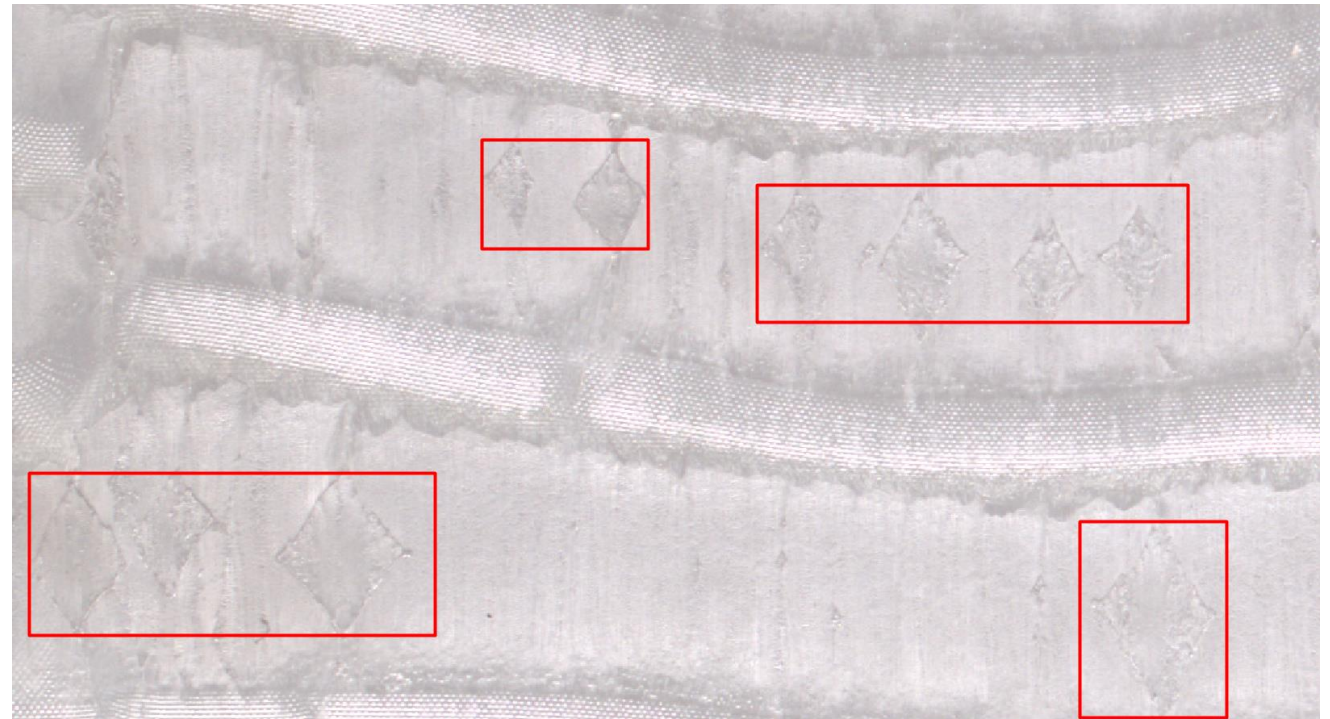# Case 1 - Detection of surface damage on flat sheets

Detection of burned spots

- Possible without AI

- Thresholding

Met de steun van

Case 1 - Detection of surface damage on flat sheets

Stick defects:

- Challenging problem

Met de steun van

Case 1 - Detection of surface damage on flat sheets

Defects on the side

- Detection using AI

- Resnet18 was used

Met de steun van