



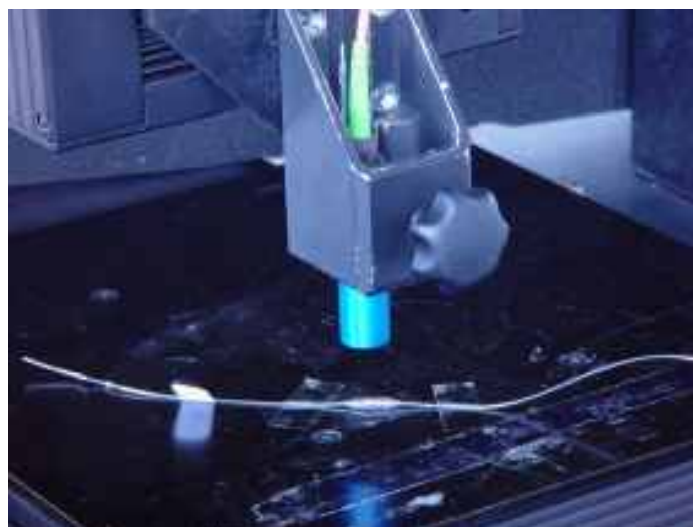
## Thickness Measurements

Sensor: CHR150E

Optical probe: interferometric

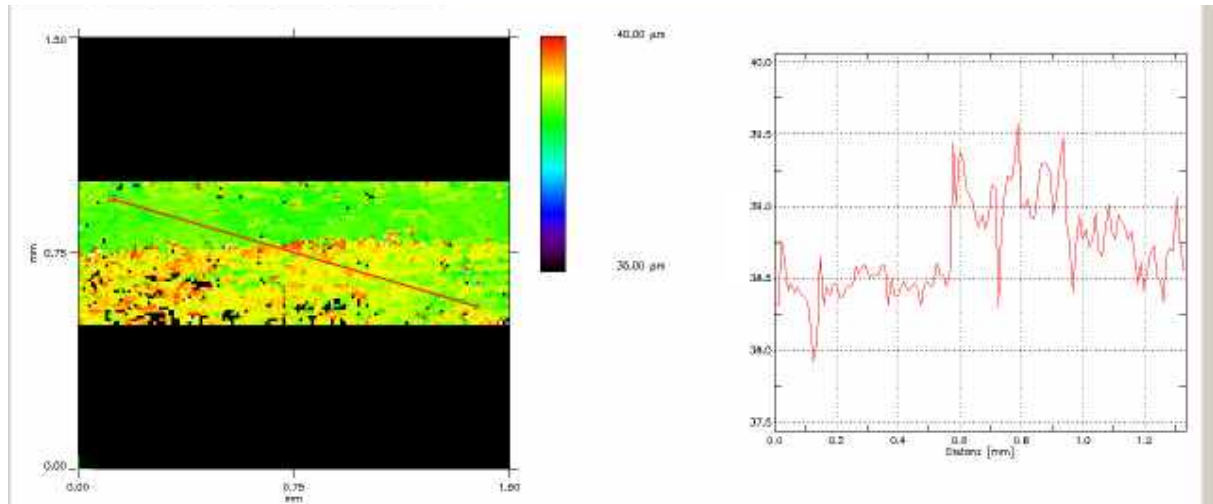
Data output: digital, analogue, LCD display

### *Balloon Thickness*



## Measurement

The measured values have to be divided by the refractive index of the balloon material.

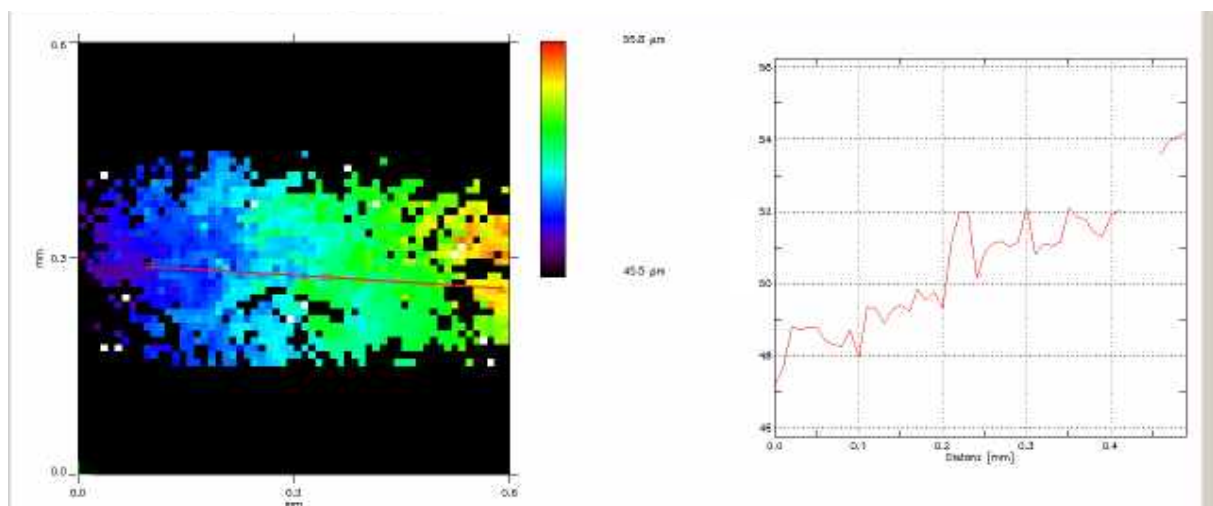


*Thickness of the balloon (middle).*

Measuring range: 1.5 x 0.5 mm

Lateral resolution: 10 x 10 μm

Measuring rate: 100 Hz



*Thickness measurement at the end of taper area.*

Measuring range: 0.6 x 0.6 mm

Lateral resolution: 10 x 10 μm

Measuring rate: 100 Hz

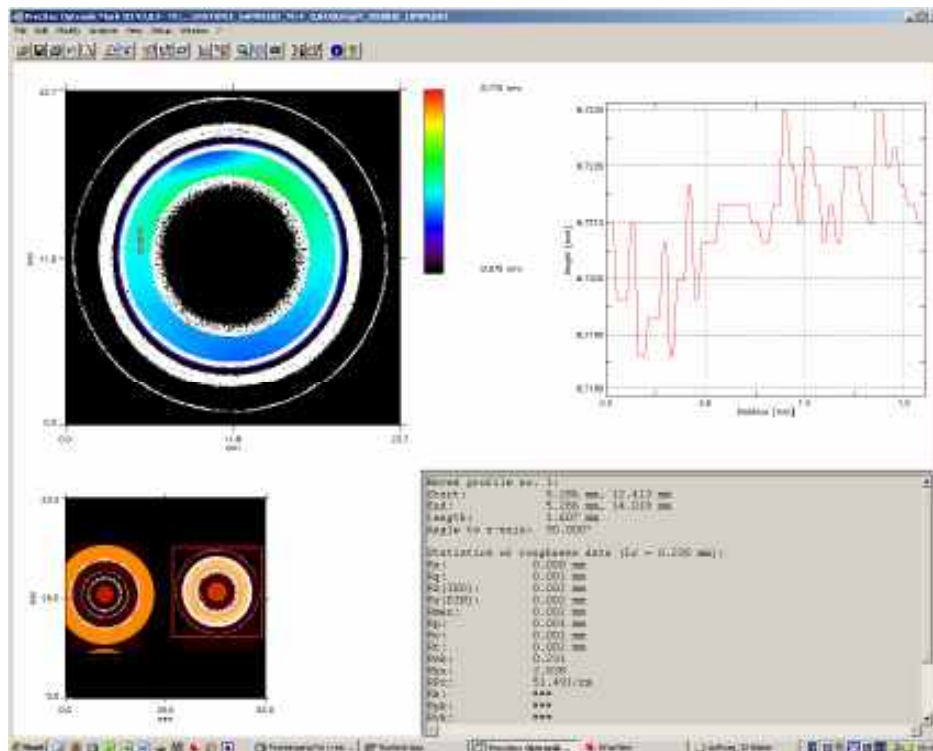
The thickness increases to the ends of the balloon.

## Contact Lens Holders

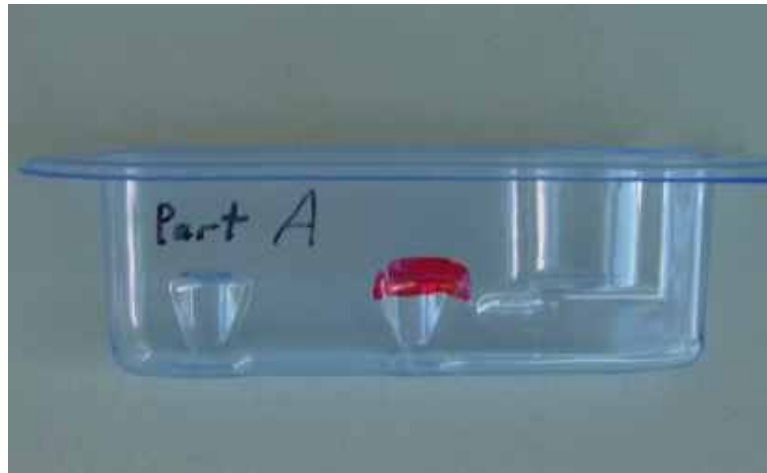


Inner top surface and outer bottom surfaces were scanned and profiles taken. One such profile is shown below. A software analysis of the profile can then be carried out to reveal anomalies or defects that may exist on the surface of the meeting faces between the two halves of the mould.

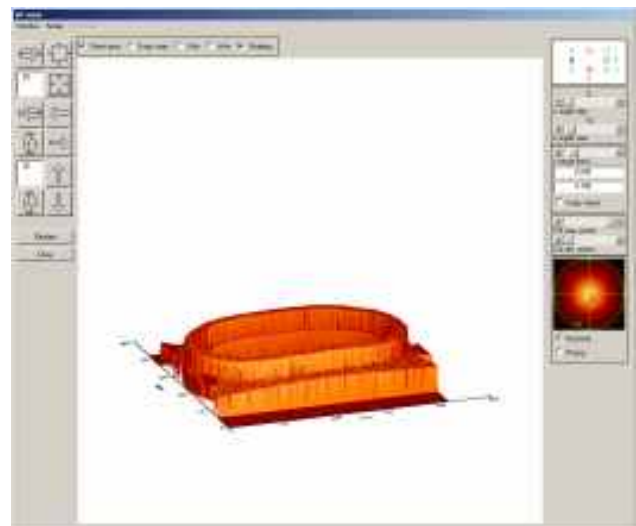
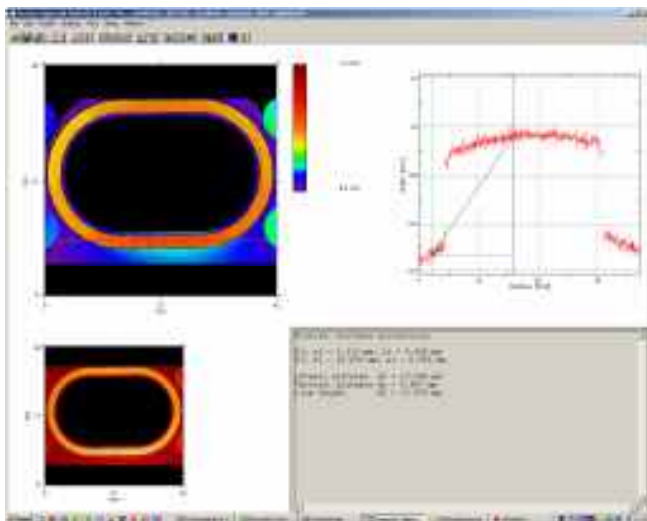
A second possibility (not shown here) is to measure the centre thickness of the lens while still in the package. This is a non-destructive test and is used to prevent incorrectly labeled batches of lenses.



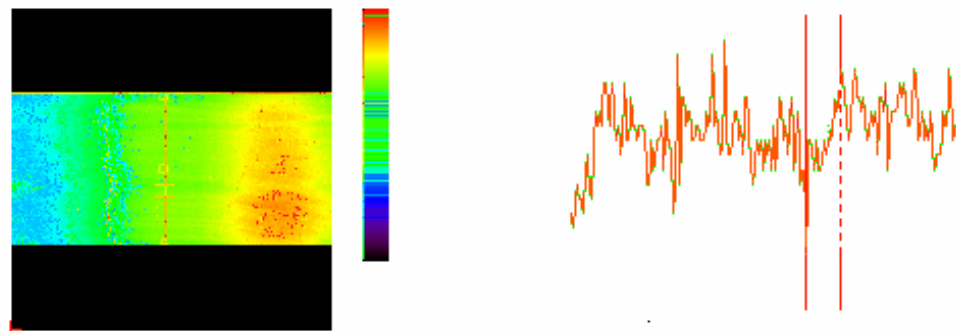
## *Blister Packs*



The race track on the top of the container (where the foil comes in contact with the plastic container containing the contact lens) was scanned because occasionally some the protective fluid leaked out of the container. The scan revealed a flaw (small indent on the track) in the moulded container. Once this was identified the problem was eliminated.



## *Thickness Measurement of Polycarbonate Panels*



## *In-line monitoring of film thickness*

