

APPLICATION

**Non-contact Measurement
of Film Thickness**



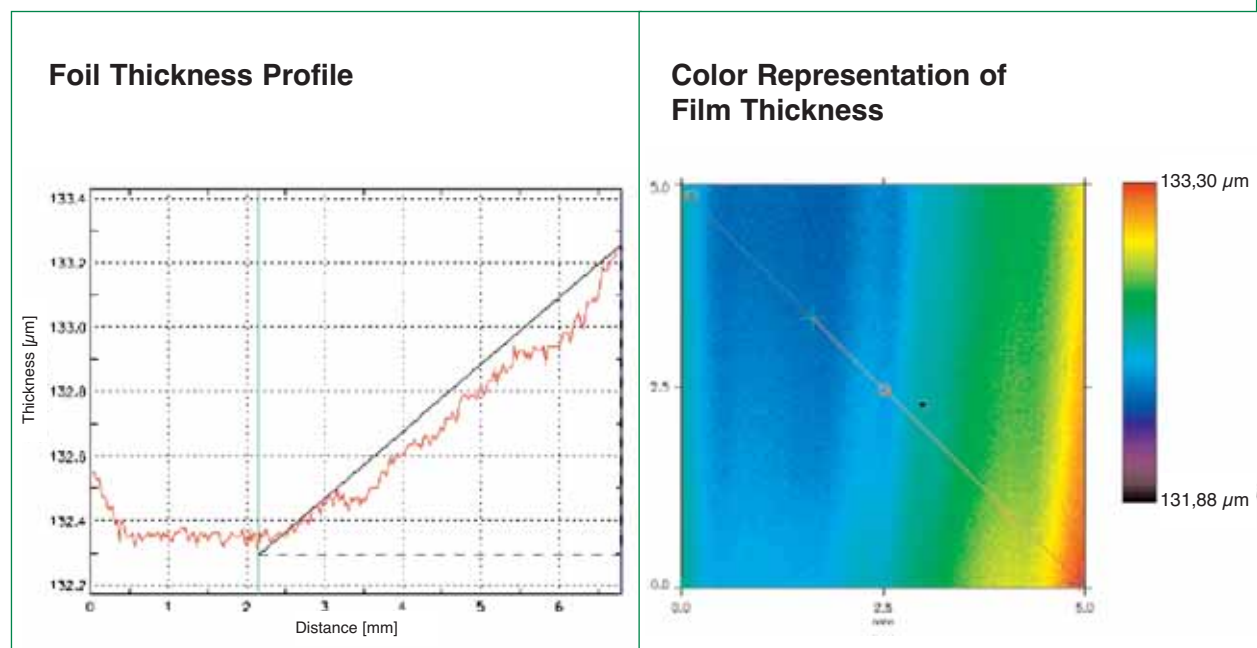
CHRocodile

If time matters...

Inline and Offline Measurement of Film Thickness

Using our CHRocodile sensor in the interferometric layer thickness mode, the thickness of transparent films can be measured without contact and with high resolution. The thickness of polycarbonate films as a laminar (offline) and as a profile (inline) measurement is exemplified in the graphs below. The fast and robust measurement of foils and layers is independent of temperature and atmospheric moisture, thereby particularly valuable in optimizing the manufacturing process.

Sensor	CHRocodile E	CHRocodile IT
Optical Probe	interferometric	interferometric
Lateral Resolution	25 μm	6,5 μm
Thickness Measurement Range (opt.)	2 - 250 μm	40 - 3500 μm
Measurements / second	4000 Hz	4000 Hz
Working Distance	101 mm	23,5 mm
Multi-layer Systems	partially capable	capable



CHRocodile X

CHRocodile E

CHRocodile M4

CHRocodile IT

CHRocodile LR