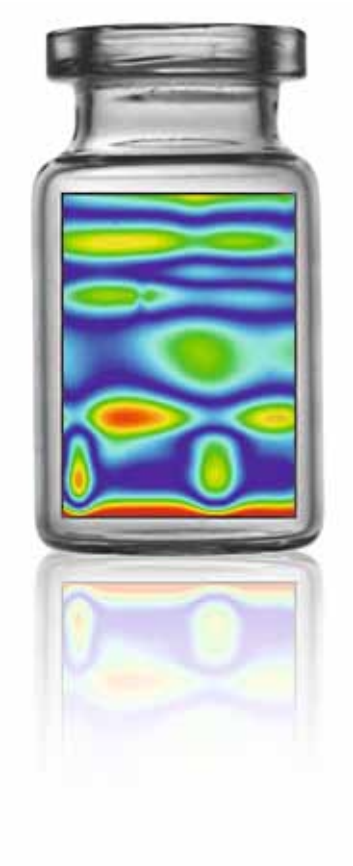
StrainMatic® M2



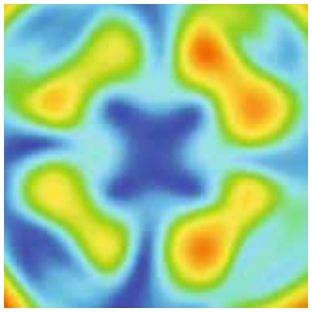
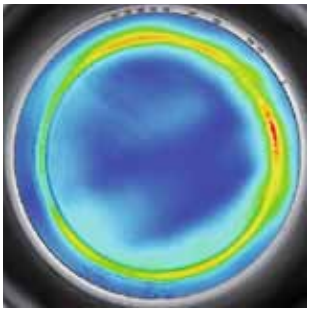
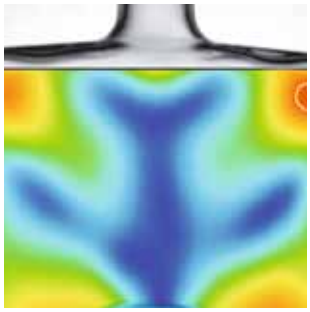
Polarimeter systems for the automatic measurement of residual stresses in glass

The fracture strength and processing ability of glass products is determined very much by inherent stresses. Constant testing of residual stresses is therefore an important component of quality control.

The StrainMatic® M2 automates the measurement and evaluation of stress birefringence in container glass and thus facilitates optimization of the annealing process with regard to quality and energy consumption.

Your Benefits

- Objective and reliable results
- Fast and simple operation
- Quality improvement by in-process measurement
- Traceability by automatic archival of all results
- Cost reduction by optimizing the production process

StrainMatic®
M2

Technical Data

Operation	integrated IPC with touch-screen
Metering chamber	approx. 450 x 450 x 350 mm (H/W/D)
Illumination	LED Array, approx. 240 x 200 mm
Image acquisition	CCD camera, 640 x 480 pixels
Image size	max. 200 x 150 mm (with 16 mm lens)
Measuring area	variable rectangular, round or elliptical
Measuring results	polarization angle (°) temper number (ASTM C 148-00) optical retardation (nm) normalized optical retardation (nm/cm) normalized stress (MPa)
Measuring range	approx. -290 to +290 nm optical retardation optional -2900 to +2900 nm (HOD module)
Reproducibility	typical <±0.2 nm (mean deviation)
Interfaces	Ethernet, USB, VGA
Power supply	230 V, 50 Hz or 115 V, 60 Hz
Dimensions	approx. 1200 x 550 x 550 mm (H/W/D)
Weight	approx. 80 kg

Application Examples

Container glass (bottles, jars, flasks, etc.)

Tableware (drinking glass, mugs, etc.)

Construction glass (glass bricks, sheet glass, etc.)

Custom adaptations and special versions are possible on request. No responsibility is taken for the correctness of the information. All information is subject to change without prior notice. As at 10/2011
Product website: www.ilis.de/en/strainmatic.html

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