

StrainScope

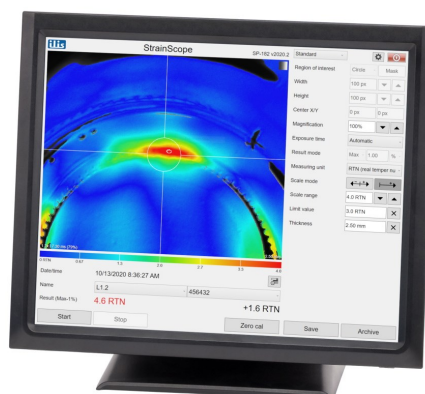
Annealing Tester

Real-time polarimeter for fast and precise measurement of residual stresses in container glass and tableware

Even in modern glass factories, residual stresses after the cooling process are still visually monitored with simple strain testers. The results are inaccurate, vary from user to user and are often under-documented.

The StrainScope® Annealing Tester delivers objective and accurate measurement results in a minimum of time – in all standard measuring units and compatible with established rating systems, such as apparent and real temper number according to ASTM C148. This allows you to specifically optimize production processes. Not only consistently high product quality is achieved, you can also minimize the energy consumption in the cooling process for each item.

The convenient archive function ensures that all measurement results are completely documented. In case of a later complaint the proof of quality is provided quickly and beyond doubt.



Features and Benefits

- ✓ Fast and easy operation
- ✓ Prompt results displayed directly in the desired measuring unit
- ✓ Consistently high product quality through testing close to production
- ✓ Cost reduction by optimizing the energy use in the annealing process
- ✓ Avoidance of customer complaints
- ✓ Complete traceability through automatic result documentation



StrainScope® Annealing Tester

Technical Data

Operation	external Windows PC with 17" touch screen
Illumination	LED array (diffuse), linearly polarized
Image acquisition	matrix camera with fixed focal length lens
Image resolution	728 x 600 pixels
Working distance	max. approx. 400 mm
Measuring field size	approx. 138 x 114 mm (at max. working distance)
Lateral resolution	approx. 0.19 mm (at max. working distance)
Measuring results	polarization angle (°) optical retardation (nm) normalized retardation (nm/cm, nm/mm, nm/in) apparent temper number (ATN) real temper number (RTN)
Measuring range	approx. -280 to +280 nm optical retardation
Measuring resolution	approx. 1 nm optical retardation
Measuring frequency	up to 30 Hz (depending on PC performance)
Interfaces	USB 3.0, foot switch (¼" jack)
Power supply	100-240 V (AC), 50/60 Hz, 100 VA (max. 1.1 A)
Operating conditions	15-30 °C, 30-70 % relative humidity, non-condensing
Dimensions	approx. 800 mm (H) x 350 mm (W) x 370 mm (D), excl. PC
Weight	approx. 20.4 kg (excl. PC)

All information is non-binding and is subject to change without notice.
Version 03/2021. Copyright © ilis gmbh, all rights reserved.



光技術をサポートする
株式会社オプトサイエンス
<https://www.optoscience.com>

東京本社 〒160-0014 東京都新宿区内藤町1番地 内藤町ビルディング TEL:03-3356-1064
大阪営業所 〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館 TEL:06-6305-2064
名古屋営業所 〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル TEL:052-569-6064
E-mail : info@optoscience.com