

HSA Heat Shrinkage Analyzer

Measuring Instrument for the Investigation of the Dimension Stability of Paper/Board/Plastic Foils under Thermal load

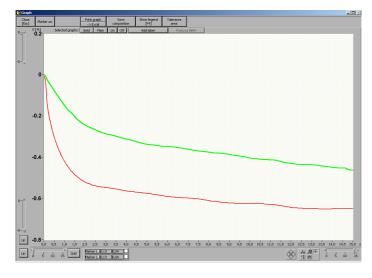


- Prediction of the converting properties of paper/board/foils concerning the dimension stability at thermal load up to 230°C
- Main applications:
 - Runnability at professional laser printing machines and copy machines
 - Register
 - four color laser printing / offset printing
 - rotogravure printing, decor printing
 - Waviness at web offset
 - Staple problems at professional offset-, copy and laser printing paper Special applications:
 - pre-impregnates = plastic foils = wall papers = special filter paper
 - Measuring results: shrinkage-time-diagram, shrinkage at a time point t
- Main User:
 - producer of paper, board, foils
 - producer of printer, copy machines, printing machines



Features

- Temperature adjustment via PC software
- Includes measurement of paper moistness and humidity, ambient temperature
- Change in dimension in MD and CD can be measured separately
- Measuring results: Dimension-Time-Diagram
 - Change in dimension at a selectable time point
- Measuring range: Stretching up to approx. 27%
 - Shrinkage up to approx. 5%
- High accuracy
- Measuring temperature: from ambient temperature up to max. 230°C
- Efficient and user-friendly Software
- Export of the measuring data into MS EXCEL with a single mouse click
- Easy to handle
- Compact and robust construction
- Non interference prone



Shrinkage of two different LWC papers with 50% relative moistness at a temperature of 130°C

Goal: Characterization of the tendency of waviness with offset printing

Technical Data

- Range of temperature: from ambient temperature up to 230°C
- Sample dimension: 60mmx200mm (MD/CD)
- Resolution: 0,013%
- Accuracy: +/- 0,05% abs. +/- 5%rel.

- Operating voltage: 115V 60Hz / 220V 50Hz
- Dimensions: HxWxD 295 x 280 x 320 mm
- Weight: approx. 15 kg