

Dimension Stability System DSS

Module HSA Heat Shrinkage Analyzer

Measuring Instrument for the Investigation of the Dimension Stability of Paper/Board/OPP films under Thermal load



Prediction of the converting properties of paper/board/OPP foils concerning the dimension stability at thermal load up to 230°C.

Main Applications

- Runnability of laser printing and copy paper for professional applications
- Register accuracy:
 four color laser printing / offset printing
 rotogravure printing, decor printing
- Waviness at web offset
- Staple problems at professional copier, laser printer and offset printing machines

Special applications

Pre-impregnates OPP films 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

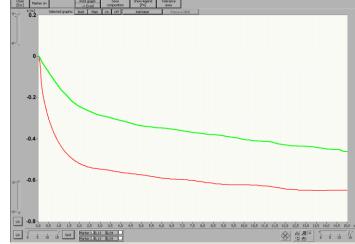
- Change in dimension in MD and CD can be measured separately
- Measuring results: Dimension-Time-Diagram Change in dimension at a selectable time point
- Measuring range: Stretching up to approx. 27% Shrinkage up to approx. 5%
- High accuracy
- Temperature adjustment via PC software
- Measuring temperature: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

Example:

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.
Power supply: 24V DC / 230V, 50Hz / 115V, 60Hz,
100VAC – 240VAC, 50-60Hz
Dimensions: 295 x 280 x 320 mm (HxWxD)
Weight: approx. 15 kg

emtec Electronic GmbH • Gorkistrasse 31 • 04347 Leipzig • Germany • E-mail: info@emtec-papertest.de Phone: +49 (0) 341 245 70 90 • Fax: +49 (0) 341 245 70 99