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**

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emtec is a developer and producer of **Paper Testing Technology** represented worldwide by our sales network

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
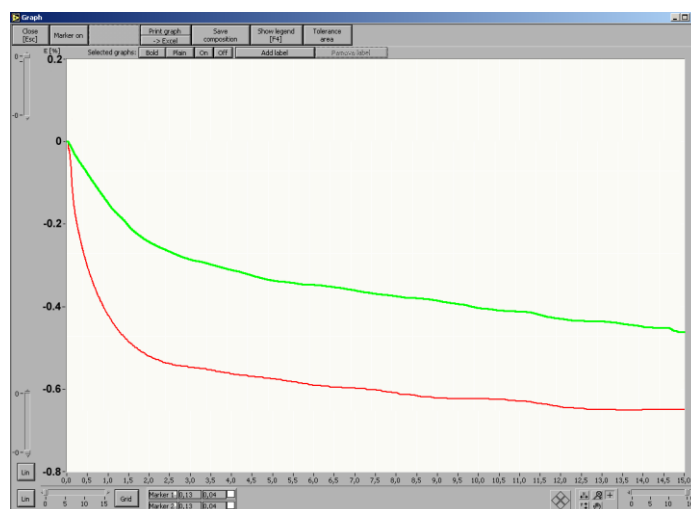
Technical data

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