

# FDM



## Fabric

# Formalidimeter

There are many reasons why textile manufacturing processes leave formaldehyde on the fabric. The main culprits are “wash and wear”, “wrinkle free” and “non-iron” treatments. The Formalidimeter offers a fast, efficient, and reliable method for determining the presence of formaldehyde in textile fabrics. Formaldehyde on the test fabric is transferred into a solution containing a special reagent by forced desorption in the MORAPEX system. The test reagent is delivered in pre-filled, sealed test tubes. The extraction process takes a few minutes. Parameters and timing are pre-programmed on the MORAPEX machine and depend on the selected method.

### Extraction

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### Developing a colored complex

The solution is conditioned in a special thermo block for 30 min. at a specified temperature of 60°C to form a colored complex. After color development the test liquid has to cool down to room temperature.

### Measuring

The test liquid is then measured in a specially programmed and calibrated photometer. The color intensity is in proportion to the formaldehyde concentration. The specific fabric weight is entered via keyboard. The application range for fabrics is 100 .... 500 g/m<sup>2</sup>. The result is directly determined and indicated on display.

### Restrictions

There are some restrictions on coated fabrics or membrane type fabrics. In general, the commonly accepted limits for rapid tests concerning accuracy and precision have to be taken into account.



## FDM

- Provides a technique which is very easy to use.
- Delivers results much faster than standard methods.
- Cost per test lower than before.
- Allows an easy Pass/Fail decision for tolerances.
- Total Test Time is about 40 - 60 min.