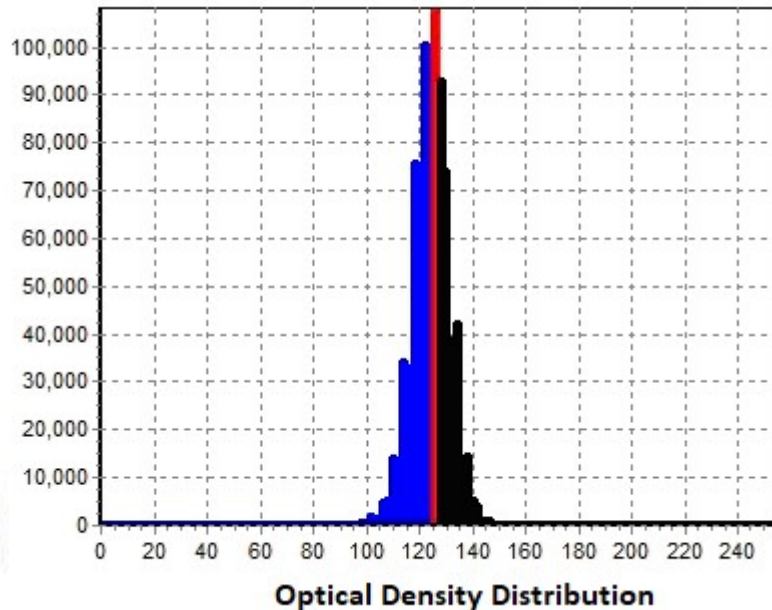


## The M/K Systems Model 1200 Formation Tester:

*The most precise formation tester available. **Scan 320cm<sup>2</sup> in a single test.***

Test **all grades of paper**, including linerboard, bond, hand sheets, as well as fiberglass.

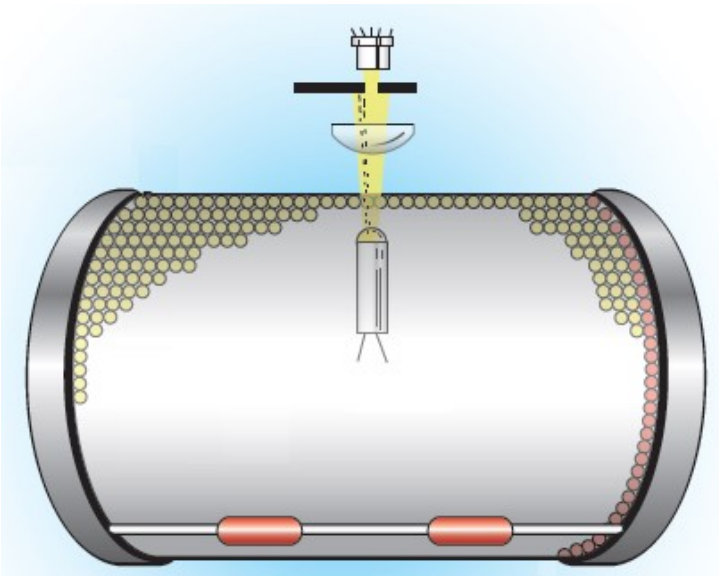


### **The M/K Formation Index: The most precise formation index**

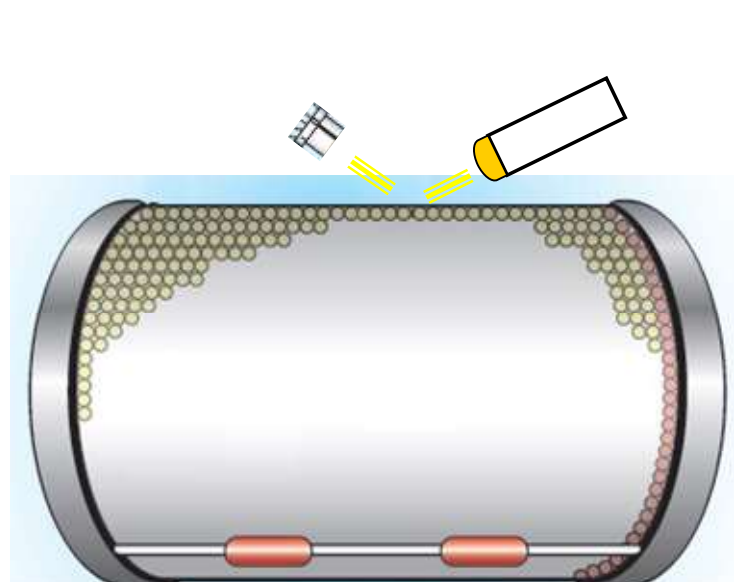
The M/K Systems Formation Tester model 1200 scans a large area in a single test, larger than any camera-based system. This easy-to-use device reveals all structural details of your paper. A laser-type focused beam scans each pixel of your sheet through a precise transmitted beam to measure the **M/K Formation Index, flocs, low density regions, and other values.**

This device is so sensitive that it will actually measure your paper's basis weight *optically*. No camera-based tester can match this precision. We also offer an optional reflection to scan each side of the sheet to measure surface roughness and surface formation.

#### Transmission Analysis



#### Surface Reflection Analysis



## Analyze all types of paper and other materials

With the M/K 1200 technology, you have the ability to *test all grades of sheets*. This ability is derived from our unique optical detector and lamp technology. The device begins each scan by measuring your sheet's density to optimize the lamp intensity. This technique results in a precise scan every time. The M/K is a true transmission scanner that accurately scans each pixel independently. Other devices use uncontrolled large light backgrounds, resulting in less accurate results. The precise M/K scan allows the widest range of basis weights to be tested, from tissue papers to liner board grades.

With a single push of the start button, the M/K reveals your Formation Index, runs a floc and low density analysis, internal roughness measurement, and optical basis weight value that correlates with the density of your sheet.

**Test Type: Formation and Floc - Transmissive**

Version 1.7.0.33N

FILENAME PREFIX: 313BM

APERTURE SIZE: RED (D)

RANGE (1 - 3): 2

Calculated Basis Weight: 25 gsm

M/K Index: 2.7

Optical Basis Wt.: 65

M/K INDEX RANGE (OPTIONAL) MIN: MAX:

OBW 69 PEAK HEIGHT 8620 NUMBER OF BINS 31.6 DEV=400

Count vs. Optical Distribution graph showing a peak at approximately 30.

Z-directional internal roughness index: 1763

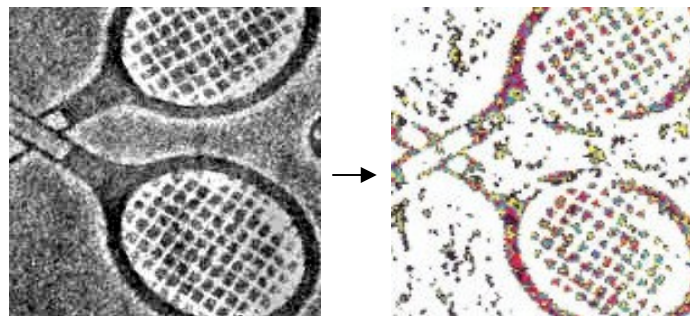
FLOC Image

Low Density Image

Summary Data:

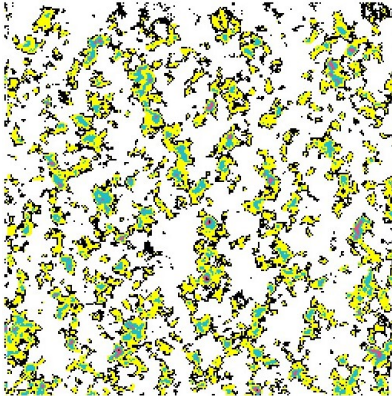
- FlocArea: 39.7%
- Floc Count: 201
- Floc Size: 20.64
- Floc Distrib.: 6.23
- LDAArea: 36.8%
- LDA Count: 228
- LDA Size: 16.8
- LDA Distrib.: 7.01
- Sheet Profile: 28

Buttons: SEND, Settings, Show Graph, See Image 1, Reload, Show Event Log, Show History, See Image 2, Delete Current Test, AUTO PRINT, Screen Shot.

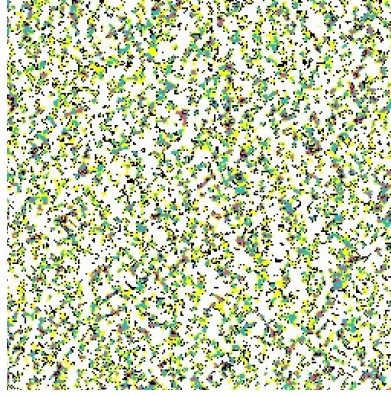


## **Examples of structures of different materials revealed by the M/K 1200**

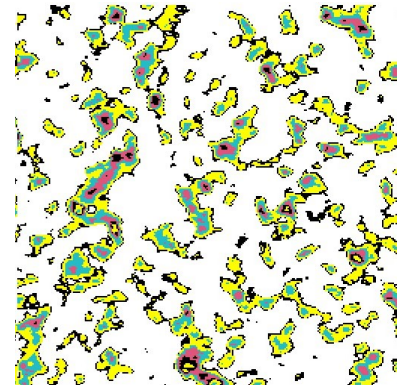
**Flocs in copy paper**



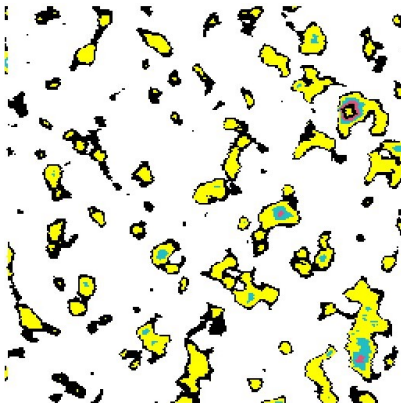
**Structural image of Tissue**



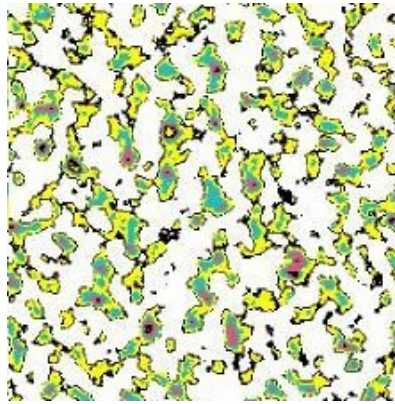
**Brown bag structure**



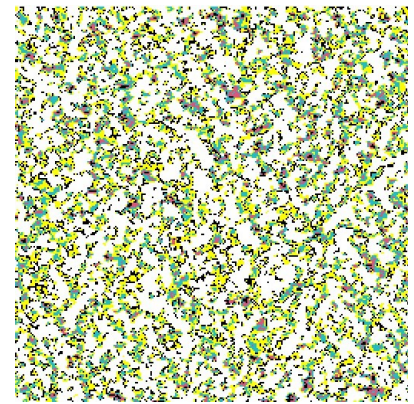
**Flocs in Abaca based paper**



**Flocs found in Paper Towel**



**Flocs found in Toilet Paper**



Our technology employs a focused beam that accurately scans each pixel of your sheet *independently*. This precise scan allows the M/K 1200 to discriminate differences fine differences than any competitor model. Add the optional scanning technology to measure surface roughness, formation, and brightness.

Structural details are revealed and displayed by our software. All data is summarized and saved as a jpg file, while raw values are stored as an Excel file.

**We offer 3<sup>rd</sup> party testing, rental, or purchase of our device.**

Contact M/K Systems for further details.