

Formation module

Valmet Paper Lab

Formation describes the uniformity of the paper base. It is determined by measuring and classifying the variations in the intensity of light transmitted through a paper sample.

Formation module clamps the sample in place, illuminates it from below and then captures a 68 x 42 mm image with a resolution of 1390 x 960 pixels. Formation is measured by image analysis.



Benefits for the papermaker

Fast, accurate, automated determination of micro-scale basis weight variation

Results correlate with visual determination of formation

De-facto industry standard

Technical data

| | |
|---|------------------------------------|
| Size (cells) | 2 |
| Weight | camera module 4 kg (8.8 lbs) |
| | illumination module 3 kg (6.6 lbs) |
| Opacity limit | |
| - non-white products | max. 98 |
| - white products | max. 99 |
| Examples of calculated properties: | |
| - Valmet Formation index, 20–122.4 | |
| - Floc percentage | |
| - Void percentage | |
| - Standard deviation of formation index histogram | |
| - Dirt count, min. size 0.01 mm ² | * |
| - Pin hole count, min. size 0.01 mm ² | * |

* Dirt count and pin holes only available in Valmet Paper Lab

