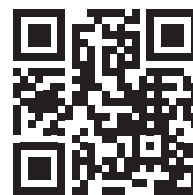


Analysing the material of films has always been a challenge. On the one hand, the basis weights of the films are low, and on the other hand, their conveyability and dosability are much more demanding compared to three-dimensional objects. Overlapping objects influence the accuracy of the material analysis immensely.

Material singulation and belt occupancy are the key factors here. For this reason, particular emphasis was placed on the dosing unit when developing the film analyser.

Our AI-based detection module with sensor fusion – proven in flakeanalyser 2.0 and processanalyser – is also used in the film-analyser. This includes a high-resolution sensor system for the simultaneous detection of different materials and colours as well as three-dimensional shapes.

The raw data from all three sensors is also analysed by AI in the filmanalyser to ensure reproducible and reliable analysis of your film qualities.



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filmanalyser
Hyperspectral Imaging Sensorsystem



filmanalyser

The filmanalyser is an analysis device for fast and non-destructive quality control and material analysis of small and lightweight 2D materials.

DEVICE FEATURES

- AI-based analysis of plastic films according to
 - material
 - colour
 - volume
- Simultaneous assignment of detected objects by colour and material
- Statistical consideration of black and dark materials
- Weight-related evaluation on the basis of measured volumes
- Determination of the particle size distribution
- Modern and solid design
- Intuitive operation via touchscreen
- Automatic output of protocols
- Automatic archiving of analysis results



TECHNICAL DATA

Dimensions (H x W x D): 1.675 x 2.150 x 822 mm

Weight: approx. 420 kg

Connected load: 400 V / 16 A / 2,6 kW

Grain sizes: 5 – 100 mm

Maximum sample volume: 18 Liter

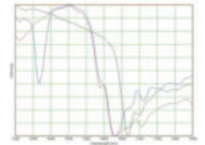


USER INTERFACE



ANALYSIS VIA NEAR-INFRARED SPECTROSCOPE

- Sensor system with high resolution Hyper-Spectral imaging technology captures characteristic spectrum.



RETURN

- The analysed sample material is returned to a collection container after the measurement has been completed.

RESULT

- The results are sent via Excel (e-mail dispatch) and label printer.



APPLICATION EXAMPLES

- chemical recycling
- mixed Polyolefine (2D/3D)
- Refuse Derived Fuel / Fluff