

- Continuousness: 24/7 operation, automatic sampling and data acquisition, automatic alarms to the operators
- Human assistance is needed only at alarms and the removal of the extrudate
- Compactness: easy installation to the existing manufacturing lines
- Expansibility: besides the default continuous rheological measurement system, different types of film quality analyzing systems or infrared spectrometers can be attached

Benefits

Brabender®

... where quality is measured.

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Brabender® Auto-Grader®

Automatic, continuous in-line measuring system of MFI and film quality

Application

What does it measure?

- Melt-flow index (MFI)
- Film quality properties: contaminations / impurities, optical properties (e.g. haze, colour)
- Composition, e. g. residual monomer, additives

Why is this important?

- The rheological properties are essential to determine the right processing parameters. The MFI is traditionally the most widely used for this purpose.
- The film quality properties and composition are needed for the classification of the manufactured raw material.

An investment that pays off

Due to the high volume of the polymer production, the relatively small changes in prices can cause rather big changes in the gains or losses.

Example 1:

With the continuous quality control of the Brabender Auto-Grader a certain grade of PP can be sold at 1,010 EUR/t instead of 1,000 EUR/t.

With a capacity of 12,000 t/month it means 120,000 EUR gain monthly.
(Machine investment: ~350,000 EUR)

An investment that pays off

Example 2:

From the above-mentioned PP due to the competitiveness of higher quality, the sales raised to 12,200 t/month on the same 1,000 EUR/t price: the gain is 200,000 EUR monthly.

Further advantages:

Due to the continuous data logging and short response time, the grade changes are immediately followed, which results in less "intermediate" product with unknown or mixed properties.