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INLINE VISCOSITY MEASUREMENT SYSTEM

Viscometer for accurate inline viscosity measurement and real time quality control. This viscometer system is integrated in the supplied PET line in order to control the product quality.

TECHNICAL DESCRIPTION

Promix Visco-P is a unique inline viscometer which measures the viscosity of the complete melt stream continuously and in real time. The measured viscosity is an outstanding indicator for the quality of your extrusion process. Changes in raw material quality, wrong additive content, humidity or variations in processing temperature will be detected immediately. As a result, the costly production of poor quality lots can be avoided. An important side effect is the ability to significantly increase the process understanding. Viscosity, melt temperature and shear rate are captured in real time and continuously visualized on the touch screen of the industrial personal computer. Integration of the extruder output value is possible through a signal from extruder to Visco-P. Alarm settings can be adjusted individually and MFR or IV values will be calculated.

TECHNICAL SPECIFICATION

- Melt temperature sensor with amplifier, ceramic insulated measuring tip, incl. cable
- 2x melt pressure transducer 0-400 bar with amplifier, incl. cable
- Control box with transmitter and fieldbus coupler
- Industrial PC with touch screen including Promix Visco-P calculation and visualization software, incl. wall bracket
- Optionally a Field-bus module can be installed for connection to a higher-level control system

MIXING MODULE

The special patented Promix mixing module acts as measuring section for Visco-P and helps to further homogenize and improve the melt quality. As a result, surface quality and thickness tolerances can be optimized. The flow optimized design offers excellent self-cleaning properties resulting in very short colour changing and cleaning times.



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