Measuring the viscosity of starch glue for the production of corrugated cardboard

Classified in polymer product family, starch is used in a large part of industrial production, especially in packaging industry. Starch glue is principally employed for bonding paper products and is used in the manufacture of corrugated board.

Viscosity in bonding paper products

Corrugated cardboard is one of the most important application using starches glue. Corrugated board results by the adhesion of a fluted layer of paper between two flat layers. Starch is used as an adhesive in these different liners.

The control of the adhesive viscosity during the process is critical. When the viscosity is out of the acceptable range, it impacts end-product quality and imperfections are important.

Adhesives with a sufficient viscosity leads to lower impregnation of grooved blankets and paper, which favors the quality and strength of the adhesive joints.

It should be noted that the rheological behavior of the starch glue is complex. Mainly pseudoplastic and thixotropic, the starch glue requires a precise and versatile viscosity measurement instrument.

A viscometer to maintain end-product quality

The installation of a MIVI sensor on the production line or starch mixing systems provides continuous and stable viscosity values during the laying of the adhesive. The MIVI viscometer and associated electronics guarantee zero default in glue deposit.

Learn more on Starch Glue Viscosity Control

Discover the MIVI Viscometer

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