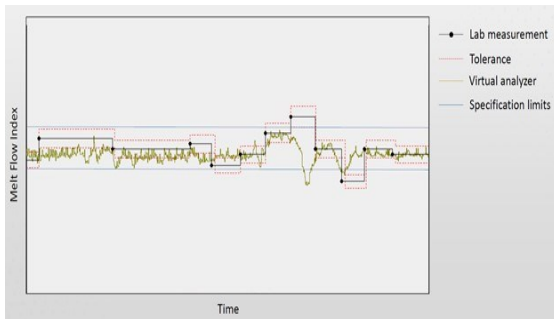


AIGC Solutions – Inferential and Soft Sensors

Case Study: A chemical company deployed inferential Melt Flow Index and Density Analyzers

The Opportunity



Braskem a Brazilian petrochemical company and the largest petrochemical company in Latin America had some quality parameters defined by physical and chemical properties of the polymers (e.g. Melt Flow Index and Density). The company experienced frequent product outside specification due lab analysis quality issues or lab sampling issues. This resulted in production loss and impacted its financial return.

The Approach

The company worked with one of AIGC partner in deploying virtual (inferential) Melt Flow Index and Density analyzers. In the final stages of the project, an operation test was conducted in which the operator used only the results of the

inferentials without the lab results to keep product inside specification. They obtained excellent results and could see great value in the tool to support the panel operator in decision making, aiming to produce more stable lots and less off-spec.

The Benefits

- Results in real-time
- Agility in decision making and improvement in process control
- Reduction of off-spec production
- Possibility to change laboratory analysis routine and frequency