

Press Release

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## PRIAMUS Goes Green

### Turning point in the injection molding process

It is obvious that the environmental idea is also reflected in the injection molding process, although the long-term consequences are not yet foreseeable. What is certain, however, is that the proportion of biopolymers and recycled plastics will increase significantly, which is why considerably higher process fluctuations can be expected in the future. The only way to continue to produce injection molded parts of consistent quality in the future will be to ensure this not in the machine but directly in the mold with the aid of adaptive process control systems.

Investigations into the processing of biopolymers have shown that some of these materials exhibit fundamentally different behavior compared to conventional thermoplastic materials. For example, the mechanical strength of biopolymer parts was not regulated by the cavity pressure or the compression of the melt, as is usually the case, but solely by their viscosity. Component fractures and deformations could be controlled or avoided with the aid of viscosity control during production.

The FILLCONTROL process monitoring and control system from PRIAMUS automatically adjusts the viscosities of biopolymers cycle by cycle using a patented process, thus ensuring that the part quality remains within the desired tolerances.

PRIAMUS is a leading manufacturer of process monitoring and control systems for the injection molding process and has been a member of the Barnes Group Inc. /USA since 2015.

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