



Press Release

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PRIAMUS Fill with extended functionality: How to control and balance constant weld lines, family molds, sequential molding and multi component applications

PRIAMUS Fill balances multi cavity molds. For this purpose the nozzle temperatures of hotrunner systems are controlled automatically by the use of cavity temperature sensors in order to fill each cavity at the same time.

In the meantime however the functionality of the system has been extended significantly: PRIAMUS Fill also controls multi component applications (e.g. for the manufacturing of tooth brushes).

The difficulty with multi component applications is the fact that the injection volume of the different components must be kept constant. After a one-time optimization PRIAMUS Fill controls the nozzle temperatures of the hotrunner cycle by cycle in a way that for each component, independent from viscosity variations, always the same injection volume – and therefore the same part quality – is achieved.

A similar application is the control of constant weld lines as it is done when manufacturing LCD frames of a laptop for instance. Here it is of prime importance for the quality of the light source that the position of the weld lines between the different injection gates is kept constant. PRIAMUS Fill controls the temperature of the hotrunner nozzles automatically so that always a constant position of the weld lines can be ensured. In the same way a constant volumetric filling of family molds – i.e. parts of different dimensions in the same mold – can be guaranteed.

PRIAMUS Fill also controls sequential molded processes e.g. for the manufacturing of large surface parts in the automotive industry. On the one hand the opening and closing of the injection valves can be directly controlled via cavity temperature sensors, on the other hand the melt front of several sequential molded parts can be balanced fully automatic against themselves. In any way PRIAMUS Fill provides plenty of functionality when it comes to controlling, balancing and keeping constant of the melt front in the cavity.

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