



## Press release

Schaffhausen, October 2010

### **PRIAMUS BlueLine – Viscosity Control for Injection Molding**

The dream of every molder is the production of absolutely identical and always ideal molded parts – whatever machine, whatever production facility and regardless which material batch is used. This, however will only succeed if the physical conditions in the mold cavity are the same and comparable.

Even if it is suggested very often: the measurement of the maximum cavity pressure only is very helpful to monitor complete filling of molded parts. Additional quality statements on the basis of this parameter however are very limited. PRIAMUS therefore introduces the new BlueLine software concept which is used not only to monitor but to specifically control the most important parameters – such as shear stress and shear rate, but also maximum pressures - directly inside the cavity. The target values can be directly imported from an optimized finite element simulation such as Moldex3D or entered manually into the system. In addition it is possible to save a “manually” optimized process as a reference in order to calculate the required parameters for the control algorithms. Depending on these parameters the settings of the molding machine are automatically controlled and adapted cycle by cycle via the host computer interface.

The real advantages of this concept consist on the one hand in combining the benefits of a simulation with the real world. At the same time the required quality of a molded part can be reproduced in form of real physical conditions. It must be reemphasized: regardless of size and design of the machine.

The different controls can be operated simultaneously or individually. The well-proven balancing and control of hotrunner systems based on the automatic melt front detection (PRIAMUS Fill) is a suggestive complement not only for multi cavity molds.

The BlueLine control systems from PRIAMUS make sure that not only the molders’ dreams but also the managers’ dreams come true.

PRIAMUS SYSTEM TECHNOLOGIES AG  
Bahnhofstrasse 36  
CH-8201 Schaffhausen / Schweiz  
[www.priamus.com](http://www.priamus.com)

PRIAMUS SYSTEM TECHNOLOGIES, LLC  
3061 Nationwide Parkway  
Brunswick, OH 44212  
[www.priamus.com](http://www.priamus.com)

Contact  
Leila Torras, +41 (0)52 632 2605

Contact  
Susan Montgomery, +1 (877) 774-2687