

New: Force sensor type 6411A

With the new force sensor type 6411A PRIAMUS has succeeded once again in improving a well tried technology.

Unlike strain gauge sensors piezoelectric force sensors are due to their physical properties especially suited for precise and dynamic force measurement.

In injection molding they are often used for indirect cavity pressure measurement behind an ejector pin, when direct measuring cavity pressure sensors for example cannot be installed due to their size.

Dimensions are therefore also problematic for force sensors and should be kept as small as possible. Furthermore the connecting cable of the sensor must be separable in order to be replaced easily in case of cable damage – which happens very often in practise. The sensor itself can therefore still be used even if the cable was damaged.

Another aspect is the maximum temperature range to which the sensor is permanently exposed. While comparable sensors are usually limited to 120 °C (250 °F) this new force sensor can be operated permanently at temperatures up to 200 °C (390 °F). These however are common mold temperatures as they can be found in many injection molding applications.

As the first sensor of its kind the new PRIAMUS force sensor type 6411A combines all these advantages together.

The applications are not limited to injection molding only, but can be found everywhere where there is a demand for industrial force measurement under economical conditions.



New: PRIAMUS Heat

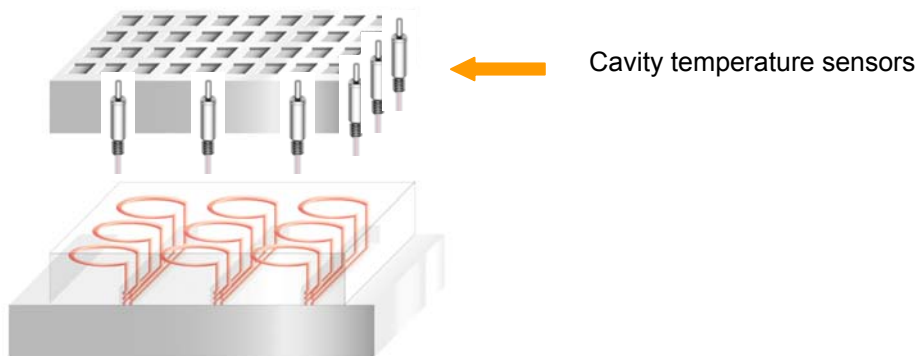
PRIAMUS Heat controls, monitors and balances the mold surface temperatures of elastomer and thermoset molds.

PRIAMUS Heat analyzes the measuring signals which are measured by cavity temperature sensors and changes the set values of the single heating zones automatically until balanced conditions are achieved over the whole mold surface.

The heat dissipation between the heating zones and the mold platen very often results in high thermal differences on the cavity surface. These different temperatures strongly influence the reaction process and lead to unequal part quality.

Due to the closed loop control PRIAMUS Heat reduces these variations clearly and provides so optimum conditions for consistent production of elastomer and thermoset parts.

Practical experience shows that e.g. in case of transfer molding of elastomers the temperature distribution on the mold surface can be reduced from +/- 20 °C to +/- 2°C.



PRIAMUS SYSTEM TECHNOLOGIES AG

Bahnhofstrasse 36
 CH-8201 Schaffhausen / Schweiz

Tel. +41(0)52 632 2626
 Fax +41(0)52 632 2627
www.priamus.com