



Press Release

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New cavity temperature sensor to monitor and optimize the injection molding process

The injection molding process is influenced by the pressure and temperature flow in the mold. Unlike cavity pressure measurement, which has established itself as a defined standard of quality over the years, the advantages of cavity temperature measuring technology are just being discovered.

Cavity temperature sensors are comparatively cost-effective, insensitive to installation and therefore predestinate for many applications. The new PRIAMUS cavity temperature sensor has an extremely small sensor body (diameter = 1 mm, length = 12.5 mm) that is connected - without a receptacle sleeve and steel conduit - directly to a flexible connecting cable. This compact construction enables also a mounting with very small moldings. The small sensor dimension results in an even faster signal elevation.

Placed at the end of fill, the signal can be used for automatic switchover to holding pressure. Unlike conventional switchover methods, e.g. based on a pressure level, this process can respond to viscosity variations because there will be switchover only if the cavity is filled.

The same principle is being used to control sequential molding applications by placing a temperature sensor after each gate. As soon as the melt reaches the sensor, a digital signal will be sent to the sequential control which will then - dependent on the position of the melt - either open or close the valve gates.

A popular application is the balancing of multi cavities or multi components hotrunner molds. Cavity temperature sensors determine automatically the optimum setting of the hotrunner controller so that all cavities are being filled precisely at the same time.

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