

1 mm Flush Mount Temperature Sensor with Machinable Tip

RJG developed the 1 mm Flush Mount Temperature Sensor with Machinable Tip as a tool to analyze temperature variation inside the mold cavity. These sensors work in conjunction with RJG's eDART™ Process Control System to assist molders in diagnosing processing problems relating to temperature issues. The temperature of both the melt and mold make up two of the four "Plastics Variables" that determine how a part is formed.

Melt and cavity temperature can be critical to many parts, especially those made with semi-crystalline materials and requiring tight dimensional tolerances. Thermodynamic stability in injection molding with crystalline material is extremely critical. Achieving proper temperatures after a cycle break can require numerous cycles.

The flush mount temperature sensor is small enough to be installed in smaller molds and molds with more challenging geometries. The sensor also has a machinable tip allowing for contouring to a molds surface geometry.

Locate the sensors near areas where short shots, dimensional errors or warp are likely to occur. Placing sensors in different areas of the part can show problems with non-uniform cooling. The best use of temperature sensors for control is with valve gates, particularly when there is little or no pressure at the point you wish to actuate a gate. For example, by placing a temperature sensor just after a gate, that gate can be opened immediately after the flow front goes by. A sudden rise in temperature indicates the arrival of the flow front.

Features

- 1 mm in diameter
- Type K thermocouple
- Flush Mount
- Sensor tip good up to 752 °F
- Machinable tip



RJG, INC.

Traverse City, MI USA

www.rjginc.com