Designed for performance
advanced manifold technology:
Opti-Flo® hot runner systems
Opti-Flo® Hot Runner Systems

Opti-Flo® systems offer molders significant processing advantages available only from INCOE. In our exclusive partnership with Beaumont Technologies Inc., INCOE’s Opti-Flo® hot runner systems utilize the patented MeltFlipper® melt rotation technology developed by BTI.

Shear Induced Flow Imbalance

Flow imbalance is a direct result of the shearing effect common to the laminar flow properties of molten plastic. Shear is developed as flow occurs near the walls of the flow channel.

Highly sheared material is less viscous than the remaining melt flow, and after splitting at intersections inside the hot runner system, this highly sheared material is unevenly distributed and may cause filling imbalances.

The Opti-Flo® Solution

Utilizing BTI’s patented MeltFlipper® technology, Opti-Flo® hot runner systems reposition the plastic melt before intersections so that both high and low sheared materials arrive in equal proportions to each cavity to achieve similar flow conditions and uniform cavity filling.

Opti-Flo® technology reduces or eliminates artificial balance techniques such as adjusting nozzle heater temperatures in order to balance cavity filling.

Benefits

- Uniform part weights, dimensions, and properties
- Scrap reduction
- Cycle time reduction
- Setup time reduction
- Simplified processing requirements
- Improved part quality to customers
- Faster part qualification process

INCOE® Global Headquarters | 2850 High Meadow Circle | Auburn Hills, MI 48326 USA | T: 248-616-0220 | E: tech.support@incoe.com | www.incoe.com
©2018 INCOE® 03/18

The products shown may be covered by one or more of the following Beaumont Technologies Inc. U.S.A. patents: 7,666,335; 6,503,438; 6,077,470; 8,529,820