



MGV ENTERPRISES L.L.C.
Innovative Materials and Technologies in Molding and Casting
IntelliMold Systems



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The 21st century is well on its way! Machine controls are faster than ever and we now have cost-effective options for measuring every aspect of what's happening within your press. Why is it, then that molders continue to create parts using an operator's opinion? It's because there is no link between the machine controls and the other part of the system: the tool. As markets diversify and expand and the possibilities are only limited by imagination, why haven't our processes evolved at the same pace? How can we be expected to mold a cutting-edge product with a perfect cycle, when we can't even track a cooling rate? Issues such as this can be an enormous drain to your budget and credibility. Intellimold Closed-Loop Controls Systems has made great advancements in improving this problem.

Although Intellimold is a very impressive system the way it is, we decided to further increase the measurability of your process by introducing "Soft Sensor Technology" or SST. SST uses the current measuring system that forms the backbone of Intellimold, but uses additional algorithms within our controller to give real-time, value added read-outs such as melt viscosity, melt flow index, molecular weight distribution, injection work, shear, stress, cooling rate etc., all of which can be used to adjust your process to maintain your material's physical properties from start to finish.

You may ask, "Why is knowing this so important, and why should I invest in this, only to know more about the material. My parts look fine." For many products, that are primarily non-structural and non-appearance shoot-and-ship products, this is a legitimate question, and in these situations, such measurability may not be as important to you. However, if your product line has high appearance or structural requirements, you will need every advantage you can get in maintaining your original material's morphology from the hopper to the product. In fact, because Intellimold is so effective in eliminating such structural issues as weld-lines and uneven reinforcement distribution, while providing a class-A surface, it has even become a part of several automotive suppliers' production specs.

Inject intelligence into your process! Give us a call, or look us up online at www.intellimold.com for more information.