



PROBLEM-SOLVING CONCENTRATES THAT MAY REDUCE MANUFACTURING COST AND IMPROVE PART AESTHETICS

OnColor™ PlastOne™ concentrates may be the missing link in helping you solve your manufacturing, cost and aesthetics problems. Based on new technology available from PolyOne, these concentrates are proving valuable for certain problems in injection molding, and continuous and intermittent extrusion. Markets where benefits such as reduced cycle time, reduced scrap and improved aesthetics have been demonstrated include automotive interiors, thin wall covers and lids, and a wide range of other extruded parts.

PlastOne concentrates may be the solution if you are having trouble with any, or many, of the following:

- ▶ **Achieving full design dimensions**
(especially large injection molded or extruded parts)
- ▶ **Controlling warpage**
- ▶ **Controlling shrinkage**
- ▶ **Brightening appearance of large parts**
- ▶ **Eliminating flow lines or fill lines**
- ▶ **Reducing cycle times**

TEST, TRIAL, COMMERCIALIZE...

Whatever your challenges may be, together we can customize a PlastOne concentrate that may yield the exact performance characteristics you require. We will work with you to reach a tailored solution for your specific part performance through our "Test, Trial, Commercialize" three-step process.

PlastOne products can be delivered as either an OnCap™ additive concentrate or, in combination with a color concentrate, as an OnColor™ SmartBatch™ concentrate. With a single SmartBatch™ concentrate, handling is simpler and more cost-effective.

THREE PRIMARY BENEFITS

Based on recent test results and current studies, the three primary benefits (which are discussed in more detail on the back of this sheet) of PlastOne concentrates have been determined to be:

- ▶ **Reduced cycle times**
- ▶ **Reduced scrap rates**
- ▶ **Improved part aesthetics**



REDUCING CYCLE TIME

PlastOne™ concentrates may help you lower your manufacturing costs. Recent case studies have shown as much as a 5 percent to 17 percent reduction in cycle times. The concentrates on their own can result in direct improvement in cycle times even if the operating profile is left unchanged. When the concentrates are coupled with operating profile changes made possible by the addition of PlastOne concentrates, even greater reductions might be achieved. Examples of possible profile changes include:

- ▶ **Reduced mold packing and hold times**
- ▶ **Lower injection and back pressures**



REDUCING SCRAP RATES

PlastOne concentrates also may improve dimensional stability, which reduces costly scrap and results in a durable end-product. Examples of possible dimensional stability improvements include:

- ▶ **Reduced “toe in” on thin wall lids**
- ▶ **Improved dimensions of large parts, per exact specifications**
- ▶ **Reduced warpage on long wall parts**



IMPROVING PART AESTHETICS

With PlastOne concentrates, you might gain the competitive advantage of improved part aesthetics, which can help you increase sales revenue. For example, we have noted improved chromatic appearance in some recent trials; the product simply looks brighter than without the PlastOne concentrate.



NEXT STEPS?

We encourage you to contact your PolyOne Color & Additives sales representative to discuss your specific needs, and then we will work with you to develop a customized solution using our new PlastOne concentrates. As a result, you may be able to lower your costs, improve your quality and increase your customers' satisfaction.

For more information, call **1-866-POLYONE** or e-mail us via our Web site at **www.polyone.com**.



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