

Polybatch Chemical Foaming Masterbatches for Packaging Applications



With the growing demand to use less plastic in consumer packaging, the use of *Polybatch* chemical foaming masterbatches offers converters the opportunity to manufacture the same plastic packaging using less material on their injection molding or extrusion equipment.

Polybatch chemical foaming masterbatches work by releasing carbon dioxide gas during the injection molding or extrusion process which is entrapped within the polymer, creating lighter weight parts using the same molds. It is possible to reduce the weight and consumption of plastic by up to 20%.

Polybatch chemical foaming masterbatches can also provide additional benefits to converters during the injection molding or extrusion process, such as reducing sink marks and warpage as well as a reduction in cycle times.

Benefits of *Polybatch* chemical foaming additive masterbatches in packaging:

- Weight reduction and reduced used of plastic by up to 20%
- Reduction of sink marks and warpage
- Reduced cycle times
- Can be blended with existing polymer and color masterbatch
- No modification of mold design

Typical applications

- Injection molded Caps & Closures
- Injection molded crates and containers
- Thermoformed sheet and trays

Additional benefits can also be achieved by using *Polybatch* nucleating masterbatch to further control the formation of a fine, homogenous cell structure in the foamed layer.

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