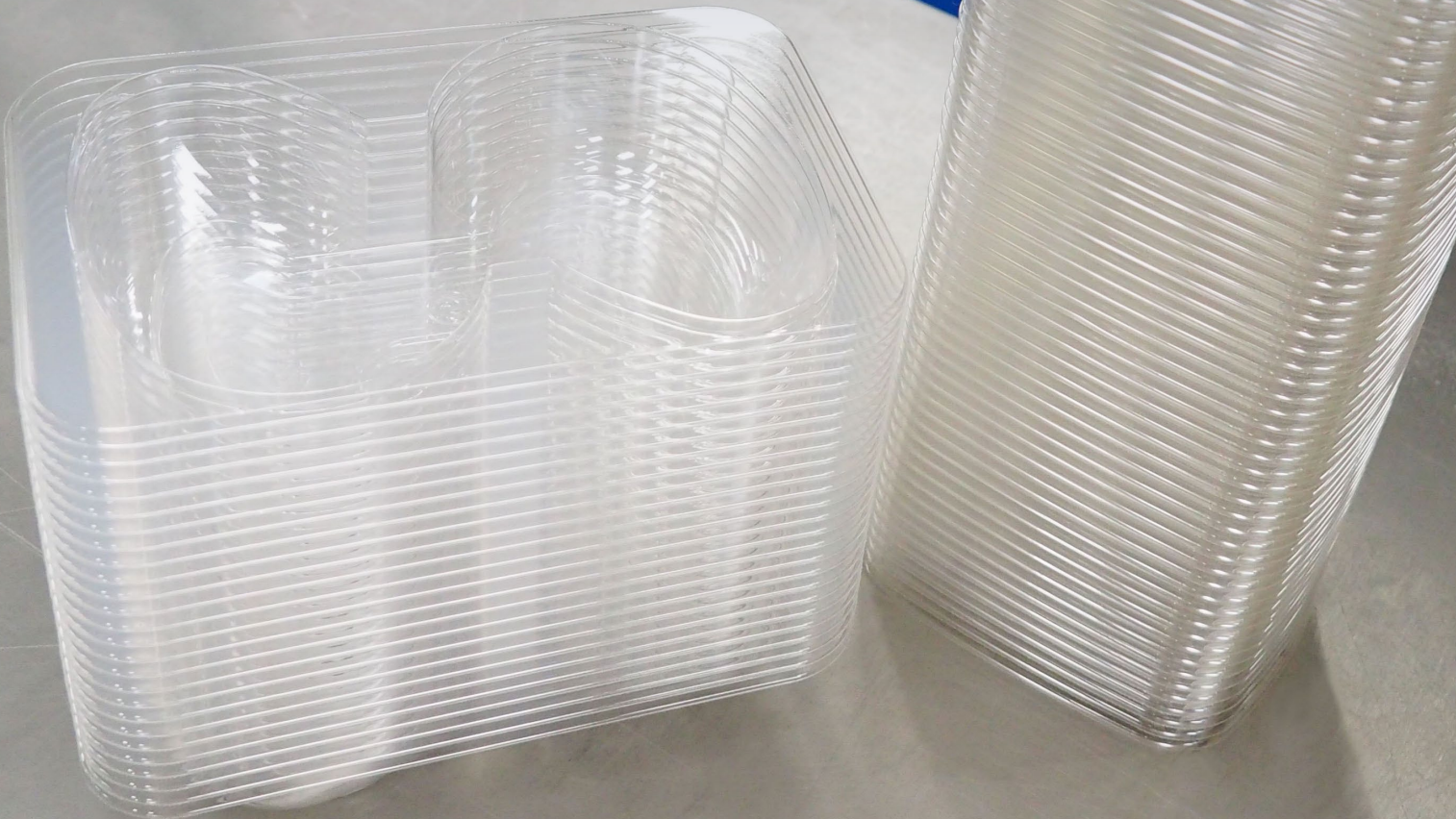


The results of using additives in the manufacture of plastics

- Additives make plastics easier to process
- Additives improve the appearance of plastics
- Additives save money
- Additives make plastics clean and healthy
- Additives extend the life of plastics

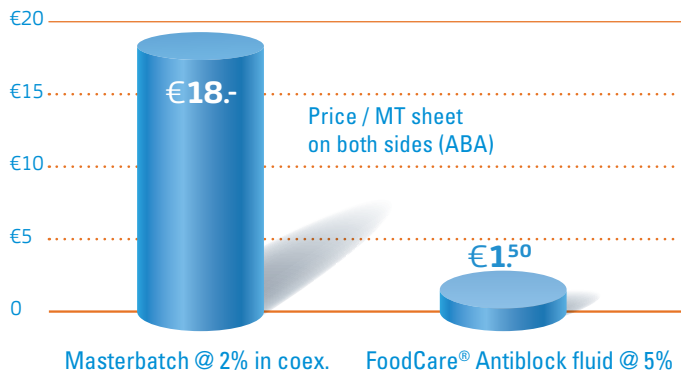


Incredible improvements and performance

Considerable savings in costs, and improved efficiency

Additives can be added to plastics via a fluid or masterbatch. So, what works best, and what is the most efficient in terms of costs? The case outlined below is a clear example of what specialty additives focused on costs, performance and appearance can achieve:

Price / MT APET sheet (friction is 0.2-0.1)



Masterbatch

Assuming a 2% dosage in the ABA layer, average consumption is 4 kg per Metric Ton (MT) of sheet. Masterbatch costs approx. € 4.50 per kilo, so this corresponds to about € 18 per MT of sheet. Annual production of 10,000 MT of sheet per year therefore requires a total layout on masterbatch of **approx. € 180,000 per year.**

Fluids

Average consumption is 0.3 kg of emulsion per MT of sheet. Emulsion costs about € 5 per kg, so this corresponds to about € 1.50 per MT of sheet. Annual production of 10,000 MT of sheet per year therefore requires a total layout on emulsion of **approx. € 15,000 per year.**

POTENTIAL SAVINGS BASED ON 10,000 MT OF SHEET ARE THEREFORE:

€ 180,000 - € 15,000 = € 165,000 PER YEAR

Additional bonus: transparent products stay clear and bright if fluids are used

Easier to process

Manufacturing products with plastics is like playing with molecules. The aim is to reorganize these molecules into new shapes without changing colors, suffering problems with adhesion to molds, or coming up against anything else that could spoil the finished product. Additives help resolve all these problems, and in fact processing plastics without them is virtually impossible. Our range of anti-block additives help production processes run more smoothly.

Saving money

Saving € 0.005 per packaging unit may not sound like much, but if several metric tons of packaging are produced every few seconds, savings can quickly reach some tens of thousands of euros over a year. There is a wide variety of additives available which help reduce costs.

Improved appearance and functionality

Water usually condenses on a surface as tiny droplets. These refract light in such a way that it is difficult to see through the surface. If the surface is treated with an anti-fog surfactant, condensation spreads evenly over the surface, forming one continuous film. This film refracts light the same way a dry surface would, resulting in clear transparent packaging.

Additional bonus

Transparent products stay clear and bright if fluids are used.

Clean and healthy

Most plastics are insulators by nature, and retain static charges on their surfaces. These can then build up, and attract unwanted dirt and dust.

The additive Baxiline AS is an antistatic agent which helps to counteract this problem.

Increased functionality

Many natural materials deteriorate with age. Plastic components still have to work effectively even where conditions are tough, or temperatures high. Specialty additives which silently and efficiently increase the lifetime of plastics provide long-term help here.

lubrication ■ services ■ systems ■ chemicals ■ education

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