



Back2Earth

Biodegradable, compostable,
FDA approved plastic products.

**Easy-Environmentalism with
a little Capitalism thrown in.
That's what Back2earth is all
about. Leaving a smaller
footprint while enjoying life.**

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▶ **Click a section to read details**

WHAT IT IS

WHAT IT ISN'T

HOW IT WORKS

WHAT IT COSTS

WHAT IT DOES



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[Back Home](#) ◀ ▶ [Continue to WHAT IT ISN'T](#)

WHAT IT IS

The Back2Earth technology is an additive which, when combined in small quantities with any of the popular plastic resins, renders the end products biodegradable while maintaining their other desired characteristics. It is sold as ECM MasterBatch Pellets and is developed so that most plastic products manufacturers can use the additive without having to modify their existing methods of production any more than if they were changing the product's color. The potential uses of this technology are limited only by the imagination. The resulting plastic products exhibit the same desired mechanical properties, have effectively similar shelf-lives, and yet, when disposed of, are able to be metabolized into inert biomass by the communities of microorganisms commonly found almost everywhere on this planet. This biodegradation process can take place aerobically and anaerobically. It can take place with or without the presence of light. These factors allow for biodegradation even in landfill conditions which are normally inconducive to any degradation. Back2Earth's technology differs significantly from other "degradable plastics" emerging in the market today because it does not attempt to replace the currently popular plastic resin formulizations but instead enhances them by rendering them biodegradable. We believe it is simply the most cost-effective biodegradable plastic technology available today.



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[Back Home](#) ◀ ▶ [Continue to HOW IT WORKS](#)

WHAT IT ISN'T

Recognizing the environmental concerns related to plastics and the market potential, the corporate and scientific communities have long sought to develop degradable plastics. We believe that degradable plastics introduced to date possess several weaknesses that have prevented wide-spread acceptance in the marketplace.

Photo-degradable products, for example, do not degrade in landfills due to the lack of sunlight (they are typically covered with another layer of trash before the degradation can occur). At the same time these photo-degradable products present difficult circumstances for storage before use due to their reactivity to light. Similarly, plastic products manufactured with high amounts cornstarch and cottonseed fillers fail to breakdown the molecular structure of the products' plastic components, are very expensive to manufacture, and often do not achieve the requisite physical properties.



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[Back Home](#) ◀ ▶ [Continue to WHAT IT COSTS](#)

HOW IT WORKS

Our process enables the microorganisms in the environment to metabolize the molecular structure of plastic films into an inert humus-like form that is harmless to the environment. We utilize several proprietary bio-active compounds that are combined into a masterbatch pellet that is easily added to plastic resins using existing technology. The biodegradation process begins with proprietary swelling agent that, when combined with heat and moisture, expands the plastics' molecular structure. After the swelling agent creates space within the plastic's molecular structure, the masterbatch's combination of bio-active compounds, discovered after thousands of laboratory trials, attracts a colony of microorganisms that metabolize and neutralize the plastic. Several renowned testing laboratories independently established the biodegradability of our plastic films. The tests concluded that the films were biodegradable under short and long-term aerobic conditions and asserted that they would degrade under anaerobic conditions over a longer period of time. In addition, the tests concluded that the films did not produce any toxic residue harmful to living organisms in land or water.



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[Back Home](#) ◀ ▶ [Continue to WHAT IT DOES](#)

WHAT IT COSTS

Our additive only nominally effects production costs. This is largely because the technology does not rely on changing to re-engineered plastics which have not achieved economies of scale but merely requires adding a small percentage of a masterbatch to existing resins. In most applications, producing 100 pounds of biodegradable plastic only requires one pound of the MasterBatch Pellets. Consequently, we increase production costs by approximately \$0.083/lb. (less with orders leading to appropriate economies of scale) compared to products made wholly with traditional plastic resins.



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Back Home ◀

WHAT IT DOES

Best of all, the biodegradability of Back2Earth's plastics does not jeopardize the products' quality. Plastic products making use of the technology can be manufactured to be clear, as well as opaque, and in any color. We believe that the average consumer will be unable to differentiate between traditional plastic products and those produced with Back2Earth plastics on the basis of appearance or performance. Our easy-environmentalism can be achieved for pennies with Back2Earth additives.