



Union Package, L.P.

Providing our customers with a new environmental solution, limiting the life of carrier bags. We proudly present a 100% degradable poly bag.

This product is made possible by OXO-BIODEGRADABLE additive technology that has been recognized under the ASTM 6954-04 guide. Exposure to sunlight or heat triggers a two-step process, wherein the plastic breaks down through oxidation into small fragments, which then decompose into the natural elements of carbon dioxide, water, biomass, and minerals.

This packaging solution serves to satisfy both environmental legislation and public opinion.

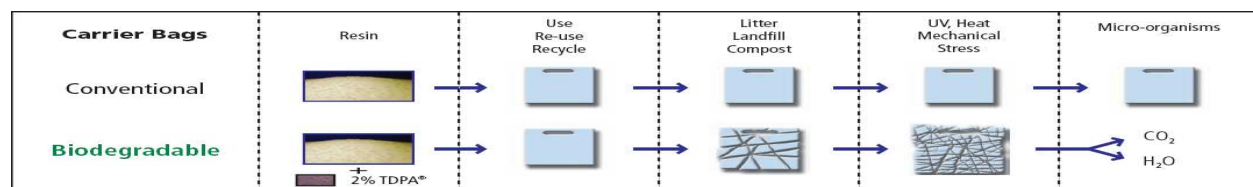
Today's consumers want a responsible and sustainable approach to protecting our environment when using low-cost, convenient, and disposable products. These bags are just as strong as ever, they are not affected by moisture and can be used again and again until the breakdown process begins.

100% Degradable Plastic Carrier Bags

Imagine the benefits of totally degradable plastic carrier bags that:

- When disposed of in a landfill site or when inadvertently littered, will degrade and ultimately biodegrade into carbon dioxide, water and biomass.
- Help reduce the build up of dangerous methane gas in landfill sites.
- Save valuable landfill space and extend landfill life.
- Keep you ahead of both environmental legislation and public opinion.

The Cycle



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Environmentally Friendly Components:

Limited Life Cycle:

- The degradation process aids in the reduction of waste and greenhouse gases.
- Controlled lifetime products from manufacture, to service life, to disposal.
- Proven to successfully degrade within landfill environments, ultimately taking up less landfill space.
- Already used extensively in Europe, where critically limited landfill area must be prudently managed.
- Customized degradable additives are formulated for compost, agricultural, and landfill environments including inadvertent litter disposal.
- Degradation is triggered by heat, UV light/sunlight (enhanced by mechanical stress and moisture).

Recyclable:

- Perfect for single use or extended limited life uses.
- Recyclable both pre- and post-consumer (prior to degradation).

Non-Hazardous Materials:

- No adverse toxicological effects or by-products.
- Food compatible – Complies with FDA (USA) and EFSA (Europe) and applicable food additive regulations.

High Quality Products:

- Bags maintain the flexibility, strength, and durability during use as in plastics not containing additives.

Affordable:

- Low-cost, convenient, reusable, disposable products that help to conserve our environment for future generations.

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Totally Degradable Plastic Additives (TDPA®) differ substantially from existing starch-based technologies

TDPA®:

- Are incorporated with **commodity polyolefin (PO) resins** and processed on **standard plastic processing machines** to produce plastic end products with **controlled life cycles**.
- Produce uniform, quality end products, which are 3 – 4 times more economical than existing starch-based technologies can produce degradable plastic products in numerous colors and transparencies.

Degradable plastic products incorporating TDPA® additives:

- Retain the characteristics of regular plastics (strong, tough, and flexible) during use
- Will degrade and ultimately biodegrade into carbon dioxide, water and biomass with no harmful residues.
- Will start degrading when subjected to sunlight, heat and/or mechanical stress
- Will degrade in landfills, when buried in soil, when inadvertently disposed of as litter, or in compost facilities.