What makes our product unique?

Transparency:

P-Life's proprietary formula and advanced processing techniques allow our Master batch to be more transparent than any other degradable Master Batches meaning little to no effect on the final color and transparency of your products.

Shelf Life:

Our technology is designed to allow the longest shelf life of your products and then Biodegrade quickly after it's use. Other additives may compromise the strength for your products while they are still in use leading to unsatisfied customers. P-Life assures the longest shelf life of your products over all the competition.

Biodegradability:

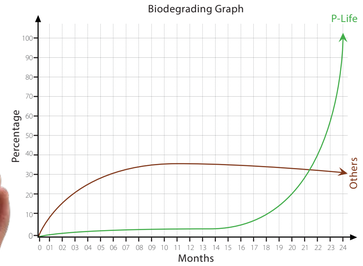
Unlike other products that claim "biodegradation" - P-Life is the only additive in the world that can prove 100% biodegradation. P-Life backs up its claim with extensive third party scientific testing. Many products in the market claim to "biodegrade plastic" however in reality these products only break up the plastic into smaller pieces making the plastic pollution problem worse. P-Life is the only choice when it comes to ensuring your plastic will fully biodegrade.

Health & Safety:

P-life contains NO Heavy Metals and is fully FDA & ROHS Approved for food contact applications.

Recyclability:

Plastic using P-Life is 100% recyclable P-Life is not designed to replace recycling but to complement this process. In order to prove the recyclability of our product, the SP Institute tested under an improbable scenario where 100% of the plastic input contained P-Life. It was found that there are no material adverse effects on the performance of the plastic end product and machinery is completely unaffected. The reason for this is that P-life was designed for single use application.



THE WORLD'S **FIRST & ONLY 100%** OXO-BIODEGRADABLE PLASTIC ADDITIVE

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P-Life®

100% FULLY BIODEGRADABLE

100% RECYCLABLE

CERTIFIED IN SPCR 141 APPENDIX 4 IN ACCORDANCE WITH AS.TM D-6954

what is P-Life?

P-life is a proprietary additive technology which makes polyolefin plastic biodegrade safely and seamlessly into the environment. P-Life is designed to be used easily in the manufacturing process of plastic packaging products with the following features:

Dosage Level:
1%-2% against let down polyolefin polymers (PE, PP).

Blending:
Blended directly with resin pellets in the converting stage.

Ingredients:
Registered in FDA, Complies with RoHS Directive.

P-Life comes in master batch pellet form and is customizable with the exact concentration of additive necessary to accommodate your product's intended shelf life. In this form it is very easy for blow-molders and injection-molders to work with. They simply mix it in with other processing aids in the extruder directly after the reactor. It is then blow-molded or injection-molded as normal into the desired product.

how does P-Life Work?

P-Life Oxo-biodegradable plastics undergo two-step degradation.

Step 1 "Oxidative Degradation"

P-Life oxo-biedgradable plastic start to degrade only once they are disposed of in the environment. This takes place at the end of the lifetime of the plastic product. It is initiated by naturally occurring catalysts in the environment such as: heat, UV light and oxygen. As a result, this oxidative reaction leads to a chain scission of the polyolefin polymers matrix and the production of low molecular mass oxidative products such as carboxylic acids, alcohol etc.

Step 2 "Biodegradation"

These lower molecular weighted products are then assimilated into the environment. P-Life does this by allowing naturally occurring bacteria to consume the polyolefin plastic. The plastic is converted into H20 and Biomass as the final remnant.

has P-Life been tested?

P-life has been extensively tested to ensure it functions correctly. The SP Technical Research Institute of Sweden ("SP") performed SP Method SPCR 141 Appendix 4 "Polymeric Waste degradable by abiotic and subsequent biological degradation (A + B Degradation)- Requirements and test Methods." SP concluded that the test material (polyolefin film containing P-Life) fulfills all the requirements of SPCR 141 appendix 4, which is in accordance with ASTM D6954. P-Life successfully passed Tier 1,2 and 3 testing.

Tier 1

Abiotic Degradation > Complete after 10 days of thermal exposure environment.

Tier 2

Biodegradability > Complete after 24 months in soil.

Tier 3

Eco-Toxicity > Germination and biomass is identical for all plants compared to controls.

product application

Retail:

Shopping Bags, Garbage Bags, Courier Bags, Food Waste Bags

Food and Beverage:

Food Trays, Drink Bottles, Cups, Cutleries, Straws

Packaging:

Loose Fills, Bubble Packs, Stretch Films, Shrink Films, Cosmetics

Others:

Seedling Bags, Flower Pots, Agricultural Films

a few of our customers

Pizza Hut

Red Bull

IKEA

Cathay Pacific

SAMSUNG

7-Eleven

Mister Donut

HSBC

LOTTE Mart

Jollibee

P-Life is sold around the world.

The following are countries that have either officially endorsed the benefits of Oxos or have already mandated their use by law.

- Albania
- Argentina
- Brazil
- Cameroon
- Cote d'Ivoire
- D.R Congo
- Equador
- Ghana
- Maldives
- Mexico
- Montenegro
- Morocco
- Pakistan
- Serbia
- Singapore
- Slovenia
- Togo
- Jordan
- Mali
- Mauritania
- Oman
- Philippines
- UAE
- Vietnam
- Yemen