

Bags, Bottles, Containers



Consumer and Industrial Applications:

Bags, Bottles and Containers

Products successfully incorporating **TDPA**[®] additives include:

BAGS

- bread & bakery bags
- carrier (shopping) bags
- compost (leaf & garden) bags
- courier bags
- film rolls for bags
- garbage (refuse) bags
- garment bags
- ice bags
- pet waste bags
- produce bags (onion, potatoes, etc.)
- shopping bags
- Ziploc[®] bags

BOTTLES

- detergent
- milk, juice, sauces
- shampoo & conditioner

CONTAINERS

- bakery
- deli and food
- take out food


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Use **EPI's TDPA®** totally degradable plastic additives to create degradable plastics...

... a cost effective and environmentally responsible solution for manufacturers using commodity resins (**PE, PP, PS**).

Superior Advantage with No Loss of Product Performance

	Conventional	TDPA®
Tensile Strength	✓	✓
Elongation	✓	✓
Impact Resistance	✓	✓
Clarity	✓	✓
Printability	✓	✓
Permeability	✓	✓
Sealability	✓	✓
Food Contact Compliant	✓	✓
Recyclable	✓	✓
Degradability	✗	✓

- ▶ Customized degradable and biodegradable additives: formulated for compost and landfill environments including inadvertent litter disposal.
- ▶ Ideal for single use or limited life cycle applications.
- ▶ A cost effective and competitively priced PE product.
- ▶ Complies with **FDA** (USA) and **EFSA** (re. applicable EU legislation concerning food-contact materials).
- ▶ No change to sealability, printability or tensile strength.
- ▶ Processed on existing manufacturing equipment.
- ▶ Product quality and production rates unchanged.
- ▶ Endorsed by **EPI's** International Scientific Advisory Board (**ISAB**) and the OxoBiodegradable Plastics Institute (**OPI**).
- ▶ No adverse toxicological effects or by-products.
- ▶ A degradable product (degradation end-point as per ASTM D3826).
- ▶ A biodegradable product (biodegradability measured as per ASTM D5988).
- ▶ Degradation triggered by heat and/or UV light (enhanced by mechanical stress).
- ▶ Recyclable (pre and post-consumer prior to degradation) and reusable until noticeable breakdown with no harmful residues.
- ▶ A controlled lifetime product from point of manufacture, to service life, to final disposal.
- ▶ Proven to degrade in a landfill environment, ultimately taking up less landfill space.
- ▶ Helps reduce waste and will assist in the reduction of greenhouse gases.
- ▶ Preserves the environment for future generations.

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