

# Covers, Films and Wraps



Consumer and Industrial Applications:

## Covers, Films and Wraps

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

### COVERS

- grain & produce covers
- ground covers
- hay covers
- landfill covers
- storage covers

### WRAPS

- bale & lumber wraps
- bubble wraps
- butcher wraps
- confectionery wraps
- deli wraps
- freezer wraps
- shrink wrap
- stretch & pallet wraps

### FILMS

- agricultural films (mulch films)
- blown & cast films (**PE, PP**)
- BOPP, CPP, OPP** (tapes)
- cigarette wraps
- construction film
- disposable table cloths
- films for personal hygiene products
- multilayer films — co-extrusion
- stretch-cling films



# 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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