

Engineered BIO-Films offer premium, biodegradable performance for environmentally-conscious customers seeking a value-added solution. As a long-standing, product-approved, member of the Biodegradable Products Institute, Sharp has developed bag products suitable for Biodegradation and Composting environments, under ASTM D6400, D6868 and 6954 for many years.

BIO-Films compare favorably to other "Biodegradable Enhanced" polyethylene products due to a packaging friendly, three-phase process. **Phase 1 – *Repose***: The bags experience stable shelf life and are suitable for normal application and use; due to delayed, photo initiation design. **Phase 2 – *Primary Oxidation***: Once photo initiation has taken place, bags begin to experience oxidation of the polymer chain in the presence of biodegradation promoters. **Phase 3 – *Mineralization***: Soil based microbial attacks break the polymer down to carbon dioxide, water and biomass.

Once photo initiation has begun, the bags enter a dwell time as they move towards the biodegradation process that takes place between six months and five years, depending on customer specific processes, bag construction and exposure conditions.

Bag performance is maintained and protected by the *Repose Phase* delay that begins the biodegradation process *only within proper conditions* including UV light, heat and biodegrading material such as environments present in composts and landfills.

## FEATURES AND BENEFITS

- Available in most Polyair Bags
- Environmentally and Economically Friendly
- Superior Clarity and Tensile Strength
- Available from 1.0 mil to 5.0 mil
- Biodegradable Design to ASTM 6954
- Fully Recyclable
- Wide variety of colors and tints available

All BIO-Film products are clearly labeled with Polyair Biodegradable markings for easy identification and improved inventory management.

If you would like more information about Polyair products, systems, service and other environmentally friendly products please contact our Sales team at 1-888-POLYAIR, or visit us online at [www.Polyair.com](http://www.Polyair.com)

## APPLICATIONS

- Mail Order Fulfillment
- Medical
- Retail
- Industrial
- Food
- Wholesale

