



Cortec Biodegradable Film Technology

High Performance Solutions Today to Prepare Us for Tomorrow



Cortec's Mission

- Develop and bring to market, value-added biodegradable flexible films that outperform non-degradable and other biodegradable materials currently on the market.
- Customers buy first on **PERFORMANCE**, then on environmental attributes.

Definitions and Standards

- For a new technology to sell, it must perform per industry standards. Without standards, companies cannot compete on performance and consumers become confused by unsubstantiated claims.
- "Biodegradable/Compostable" Films must:
 - Disintegrate rapidly (6 months or less)
 - Biodegrade by microorganism (natural) activity under realistic disposal conditions (composting)
 - Not affect plant, water, animal life
- Basis for Din Certco (Europe), BPI (USA), BPS (Asia) and ASTM D 6400

Importance of Biodegradables

- **Environment & Sustainable Development**
 - Landfill space is limited
 - Composting is becoming cost effective and required
 - Plastics contamination is visible and costly
- **Government/Industry Regulations**
 - Many countries are implementing or evaluating tariffs, fees on inbound packaging materials
- **Sales & Business Sense**
 - Polyethylene prices are rising, customers are looking for options.

Eco Film™ & Eco Works™ Films & Bags

- Meet standards for compostability and biodegradability.
- Allow physical properties to be adjusted for custom and common applications.




Eco Film™ Cryogenic Film

- Maintains strength and usability even at extremely high and low temperatures.
- Meets BPI, Din Certco and BPS criteria
- Ideal for pharmaceutical, food and similar applications




Eco Wrap™ Compostable Stretch Film

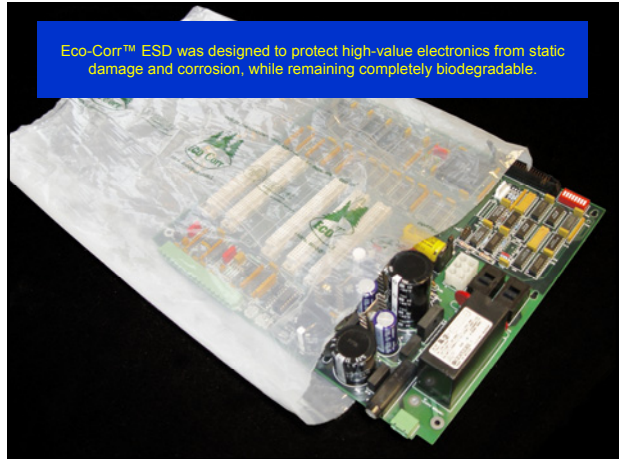
- Completely biodegradable
- 60% stronger than polyethylene stretch film
- Meet BPI, Din Certco, BPS Standards
- Allows convenient disposal, especially in:
 - Agricultural shipments
 - Shipments to environmentally sensitive areas
- Can also include VpCI, ESD technologies.



Eco-Corr™ is ideally suited for small parts packaging, liner films, shrouds and similar forms for customers shipping to environmentally sensitive areas.



Eco-Corr™ ESD was designed to protect high-value electronics from static damage and corrosion, while remaining completely biodegradable.



Summary

- Industry and government standards exist and are becoming more stringent.
- Companies and communities are becoming much more aware of the impact plastics have on the environment.
- New technologies allow biodegradable & biobased products to replace less friendly products, WITHOUT sacrificing performance.