BIODEGRADABLE/COMPOSTABLE PACKAGING TECHNOLOGIES
Cortec® Corporation is an ISO 14001:2004, ISO 9001:2008, and ISO/IEC-17025 certified manufacturer of over 400 environmentally preferable products, including our latest technologies in biodegradable/compostable films and bags. As sustainable packaging has become increasingly important, Cortec® has led the way, offering packaging films that bridge the gap between performance/usability and certified compostability.


We are proud of what we do and how we do it.

Certified Biodegradable/Compostable Packaging Technologies

All Compostable/ Biodegradable Films from Cortec®:
- Moisture resistant, heat stable and shelf stable
- Can be printed with a multitude of inks and processes
- Available in bulk roll stock for subsequent converting
- Customized to your precise needs: thickness, form, and packaging
EcoWorks®
Compostable Films and Bags, US Patented No. 6,984,426
EcoWorks® is a range of formulations, not a single product and can be customized to your precise needs. It contains renewable raw materials, designed to replace traditional low density and high density films. EcoWorks® films will fully biodegrade into carbon dioxide and water within a matter of weeks.

• Certified Compostable per ASTM D6400 and EN 13432
• Renewable content
• Superior strength, shelf-life, and curb-life

EcoWorks® Resin
Compostable Resin for Film
EcoWorks® Resin is a proprietary blend of aliphatic and aromatic polyesters designed for compostable film extrusion applications. EcoWorks® also contains Ingeo™ Biopolymer, an annually renewable resource derived from plant sugars. Formulating with EcoWorks® Resin is customizable; it can be used as is or blended with other biodegradable materials and process additives to obtain desired properties. Films produced from EcoWorks® Resin are certifiable as 100% compostable per ASTM D6400 and EN 13432.

* Ingeo™ is a trademark of Nature Works LLC

• Composed of FDA approved ingredients
• Can be processed on traditional blown or cast film extrusion equipment
**EcoWorks® AD**

Biobased Film and Bags for Compost and Anaerobic Digestion Markets

EcoWorks® AD film and bags are constructed from the latest biobased polymer technology designed with the environment in mind. EcoWorks® AD film and bags are the first bioplastic product suitable for both commercial and backyard (low temperature) composting. EcoWorks® AD is anaerobically digestible and marine degradable, all without compromising on flexibility and strength!

- High renewable content: 77% biobased
- USDA BioPreferred® certified
- BPI certified to meet ASTM D6400 for compostable plastics
- Marine biodegradable per ASTM D7081
- 100% anaerobically digestible per ASTM D5511

**EcoOcean®**

Biobased Film and Bags for Marine Biodegradable and Anaerobic Digestion Markets

EcoOcean® film and bags are constructed from the latest biobased polymer technology. EcoOcean® is designed to biodegrade in marine environments, anaerobic digestion, natural soil and water environments, backyard composting systems, and municipal composting facilities. EcoOcean® can help reduce the increasing and persistent problem of marine litter. EcoOcean® is heat, moisture, and chemical resistant making it an ideal film for compostable bags and many flexible film packaging applications.

- High renewable content: 77% biobased
- USDA BioPreferred® certified packaging material
- BPI certified to meet ASTM D6400 for compostable plastics
- Marine biodegradable per ASTM D7081
- 100% anaerobically digestible per ASTM D5511
Eco Film®
Compostable Film

EcoFilm® is designed to replace traditional nondegradable films such as low density and high density polyethylenes. It provides superior mechanical properties and stability in comparison to other compostable films on the market. EcoFilm® is available in a variety of sizes and constructions offering an environmentally friendly alternative for applications ranging from grocery bags to export shipping.

- Certified per ASTM D6400 and EN 13432
- Shelf and curb stable

Eco Film®
Compostable Film

Eco Wrap® Tension Film

Eco Wrap® is a unique combination of biodegradable polyester film and a cling coating. Eco Wrap® is more than a stretch film alternative, it can also be used for masking applications, mechanical protection, and corrosion protection. Eco Wrap® uses controlled adhesion to stick firmly to smooth surfaces, and leaves no residue upon removal.

- Works on most existing automated machines
BioCushion®
Biodegradable Air Cushion, US Patented No. 6,617,415
BioCushion® is a certified biodegradable air cushion for protective packaging applications providing an environmentally friendly alternative to traditional void fill materials. BioCushion® is available in different constructions, including biobased and VpCI® formulations, to meet your protective packaging needs. BioCushion® is designed for Cushion Fill Impact equipment manufactured by CPI Packaging Incorporated.

- Certified compostable per ASTM D6400 and EN 13432
- Superior mechanical properties
- Packaging material reduction compared to traditional void fill materials

Eco-Corr®
VpCI® Film, US Patented No. 6,028,160
Eco-Corr® provides contact, barrier and Vapor phase Corrosion Inhibitor (VpCI®) protection. Metal parts packaged in Eco-Corr® receive continuous protection against salt, excessive humidity, condensation, moisture, aggressive industrial atmosphere and dissimilar metal corrosion.

- Certified compostable ASTM D6400 and EN 13432
- Provides better tensile strength, tear strength and ultimate elongation than low density polyethylene films

Eco-Corr® ESD
VpCI® Static Dissipative Film and Bags
EcoCorr® ESD film utilizing Cortec’s patented VpCI® technology along with eliminating static electricity. It provides contact, barrier, Vapor phase Corrosion Inhibitor (VpCI®) and anti-static protection

- Certified compostable ASTM D6400 and EN 13432
- Static Decay rate conformance to MIL-PRF-81705D

Eco-Tie®
Biodegradable Tie
Eco-Tie® is a high-strength, completely compostable per ASTM D6400 standards alternative to twine and metallic/plastic ties used in agricultural and industrial markets.
<table>
<thead>
<tr>
<th>Product</th>
<th>Common Applications</th>
<th>Unique Properties</th>
<th>Base Chemistry</th>
<th>Appearance</th>
<th>Forms Available</th>
<th>Certifications Available</th>
<th>Tint</th>
<th>Heat Sealable</th>
<th>Shelf Stable</th>
<th>Moisture Proof</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioCushion®</td>
<td>biodegradable air cushion for protective packaging applications for retail, crafts, medical, automotive, and consumer products</td>
<td>compostable per ASTM D6400, shelf and water stable, packaging material reduction</td>
<td>synthetic compostable polyester</td>
<td>silky, elastic</td>
<td>8” with perforations at 5” or 8”, 12” with perforations at 5” (two tubes per perf), custom formulations</td>
<td>BPI, yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Eco Film®</td>
<td>collection bags, packaging film for retail items, and convertible film</td>
<td>soft, elastic, up to 30% stronger than LDPE</td>
<td>synthetic compostable polyester</td>
<td>silky elastic</td>
<td>stock bags, retail packs, custom film, and master rolls</td>
<td>Din Certco, yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>EcoFilm®</td>
<td>film is also marine protective and in the event that this product should reach the waterscape it will biodegrade in months instead of remaining in the ocean for hundreds of years</td>
<td>USDA BioPreferred™ certified packaging materials, BPI certified to meet ASTM D6400 for compostable plastics, marine biodegradable per ASTM D7861, 100% anaerobically digestible per ASTM D3851</td>
<td>synthetic compostable polyester</td>
<td>silky elastic</td>
<td>stock bags, retail packs, custom film, and master rolls</td>
<td>Din Certco, BPI, yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>EcoWorks®, Patented</td>
<td>collection bags, produce bags, handle bags, produce, and convertible films</td>
<td>customized rigidity from slightly elastic to highly rigid, includes biobased raw materials (5-70%)</td>
<td>blend of bio and synthetic polyesters</td>
<td>slightly elastic (EcoWorks® 5) to highly rigid (EcoWorks® 70)</td>
<td>custom formulations, custom films, bags, and master rolls</td>
<td>Din Certco, yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>EcoWorks® AD</td>
<td>film for community composting programs, anaerobic digestion programs, organic waste diversion, lawn and leaf bags, and retail packaging</td>
<td>USDA BioPreferred™ certified packaging material, BPI certified to meet ASTM D6400 for compostable plastics, marine biodegradable per ASTM D7861, 100% anaerobically digestible per ASTM D3851</td>
<td>blend of bio and synthetic polyesters</td>
<td>slightly elastic</td>
<td>custom formulations, custom films, bags, and master rolls</td>
<td>Din Certco, BPI, yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>EcoWorks® Reain</td>
<td>potential applications for garbage and mulch bags, community composting programs, grocery bags, retail bags, and retail packaging</td>
<td>compostable by BPI according to ASTM D 6400, certified compostable per ASTM D6400 and DIN EN 13432 (all films produced from EcoWorks® Reain must be independently certified)</td>
<td>blend of aliphatic and aromatic polyesters designed for compostable film extrusion applications</td>
<td>pellets</td>
<td>custom formulations</td>
<td>USDA BioPreferred, yes</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Eco Wrap®</td>
<td>stretch film replacement for Agricultural shipments</td>
<td>stronger than many regular stretch films</td>
<td>synthetic compostable polyester</td>
<td>highly elastic</td>
<td>20” and 30” rolls, custom lengths</td>
<td>BPI, yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>EcoTie®</td>
<td>replacement of twine, rope, string, and metal ties</td>
<td>heatstable, adjustable rigidity</td>
<td>blend of bio and synthetic polyesters</td>
<td>slightly elastic</td>
<td>custom length spools</td>
<td>BPI, yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Eco-Corr® (VpCI®)</td>
<td>corrosion protective packaging, replace oil, and RP's</td>
<td>prevents corrosion for up to twenty-four months</td>
<td>synthetic compostable polyester</td>
<td>silky elastic</td>
<td>stock bags, custom film, bags, shrouds, and master rolls</td>
<td>BPI, yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Eco-Corr® ESD (VpCI®)</td>
<td>corrosion and static protective packaging for electronics</td>
<td>prevents corrosion and static damage for up to twenty-four months</td>
<td>synthetic compostable polyester</td>
<td>silky elastic</td>
<td>custom film, bags, shrouds, and master rolls</td>
<td>BPI, yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>
Cortec® products derived from sustainable resources

**Orange Peel**
- BioClean-610
- BioClean Spray

**Coconut Shell**
- VpCI®-411
- VpCI®-422/432

**Coffee**
- VpCI®-641
- S-10 F

**Canola Seed**
- BioLube
- BioCorr™ RP
- EcoLine® All Purpose Lubricant
- EcoLine® Cutting Fluid
- EcoLine® Rust Preventative
- EcoLine® Bearing Chain and Roller Lubricant
- EcoLine® Cleaner/Decrearer
- EcoLine® Food Machinery Lubricating Grease
- EcoPrimer®
- VpCI®-629 Bio
- VpCI®-705 Bio
- S-14 Bio
- MCI® EcoCure

**Soybean**
- MCI®-2005
- MCI®-2005 NS
- MCI®-2006
- MCI®-2006 NS
- M-605 L
- M-605 PS

**Corn**
- EcoWorks®
- EcoClean® Dispersant 600

**Sugar Beet**
- MCI®-2005
- MCI®-2005 NS
- MCI®-2006
- MCI®-2006 NS
- M-605 L
- M-605 PS

Visit our websites for more information on Cortec® Corporation.
CortecVCI.com and CortecMCI.com