Eco Works® 70 Shrink Film
Bio-based, Biodegradable & Compostable
Films, Bags, & Masterbatch Patents Pending

COMPOSTERS
Eco Works 70 Shrink Film offers improved sustainability and reduced reliance on petroleum-derived raw materials, compared with other biodegradable/compostable films currently available. Eco Works 70 Shrink Film is translucent allowing easy visual inspection of contents.

Eco Works 70 Shrink Film has been certified as commercially compostable per ASTM D 6400 and can carry both Din Certco and USCC/BPI logos. Once disposed of in a well run commercial compost facility, Eco Works 70 products will convert effortlessly and naturally into carbon dioxide and water within a few weeks.

While in use, Eco Works 70 Shrink Film films and bags are capable of holding wet, hot organic material for longer periods of time than starch-containing films and bags. This often results in longer curb-life and useful life for many customers.

INDUSTRIAL and AGRICULTURAL
Eco Works 70 Shrink Film is specifically designed to meet the rigorous requirements placed on agricultural and protective industrial films. Compared to polyethylene films, Eco Works 70 Shrink Film offers equal or greater physical properties including puncture and tear resistance. Eco Works 70 Shrink Film can be used for retention, barrier, and weed suppression films as well as replacing polyolefin resins for thermoforming, laminating, pouching, and molding.

FEATURES
- 100% Biodegradable and Compostable per ASTM D 6400 (Standard specification for commercially compostable plastics)
- Contains NO POLYETHYLENE
- Leaves no residue, dust, metals, or fragments in finished compost
- Majority of composition derived from biobased sources
- Improved clarity over most biodegradable/compostable flexible films
- Biodegrades under commercial compost conditions within weeks
- Can carry Din Certco (IBAW mark) and/or USCC/BPI logos to ensure 3rd party confirmation of compostability (certificates available upon request) and easy identification/separation
- Manufactured in Minnesota by Cortec Corporation (ISO 14001,
9001 certified manufacturer
- BEES Analysis completed, documenting the reduced environmental fast print
- Biobased content confirmed by Iowa State University
- Shrink rate is very rapid
- Ideal for shrink tunnels

**TECHNICAL INFORMATION**

Eco Works 70 Shrink Film is a high-performance, unique blend of compostable polyesters. The majority of the composition is derived from a semi-rigid corn-based polyester. The improved rigidity over straight polyester or starch-polyester formulations allows unique properties including improved gloss, contact clarity, strength, and tear/puncture resistance (both directions). Additionally, the rigidity from the corn-based polyester allows stand-up pouches, handle bags, drawtape closures, and several other unique functional attributes.

Under typical well run commercial compost conditions (microorganisms, turning, heat, moisture), Eco Works 70 Shrink Film products will be directly consumed by microorganisms and show visual change within several days. Complete conversion to carbon dioxide and water typically occurs within a few weeks.

Until the film is exposed to microorganisms, Eco Works 70 Shrink Film products will retain their original physical properties. Heat and moisture alone are not sufficient to cause biodegradation, allowing Eco Works 70 Shrink Film to contain hot, wet material for long periods of time—essentially until the materials contained within the film/bags begin to biodegrade.

**SHELF LIFE**

As described above, Eco Works 70 Shrink Film is a shelf stable product. Until the products are exposed to microorganisms or commercial composting conditions, they retain original physical properties and strength.

**FOR INDUSTRIAL USE ONLY**

**KEEP OUT OF REACH OF CHILDREN**

**KEEP CONTAINER TIGHTLY CLOSED**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT SAFETY DATA SHEET FOR MORE INFORMATION**

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**FOOD CONTACT**

The materials used in the production of Eco Works 70 Shrink Film are approved for many food contact applications. However, due to the unique and varied demands of food packaging regulations, please contact Cortec for more precise information on the suitability and approval of Eco Works 70 Shrink Film for food contact applications.

**MECHANICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Material</th>
<th>Breaking Factor, ASTM D-882 (lbf/in)</th>
<th>Tensile Strength at Break, ASTM D-882 (psi)</th>
<th>Tensile Strength at Peak, ASTM D-882 (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eco Works 70 Shrink Film</td>
<td>3.89/8.13</td>
<td>2989.89/6477.10</td>
<td>3036.01/7034.10</td>
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<tr>
<td>Competitor “Starch-based“ biodegradable/ compostable films (1-mil)</td>
<td>2.01/2.69</td>
<td>1318.7/2748.2</td>
<td>2054.6/2884.6</td>
</tr>
</tbody>
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*Mechanical property testing is provided for comparison purposes only. There can be wide ranges of physical properties actually attained due to the formulation, manufacturing techniques, thickness, and other factors selected. Comparisons to non-Cortec products are based on testing conducted by Cortec Laboratories during the development of Eco Works 70 and may not represent typical or current results attained by other manufacturers.*

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**LIMITED WARRANTY**

All statements, technical information and recommendations contained herein are based on tests Cortec Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed. Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation’s obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer. Cortec Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec Corporation. The foregoing warranty is exclusive and in lieu of all other warranties, express, implied or statutory, including without limitation any implied warranty of merchantability or of fitness for a particular purpose. In no case shall Cortec Corporation be liable for incidental or consequential damages.