



Eco Works®

Compostable Films & Bags

Patented

PRODUCT DESCRIPTION

Eco Works is a range of formulations, not a single product and can be customized to your precise needs. Designed with the environment in mind, Eco Works contains renewable raw materials ranging from 5 – 45%, depending upon the formulation. Designed to replace traditional low density and high density films, Eco Works is suitable for applications such as: checkout bags (T-shirt and flat), lawn and leaf bags, organic waste diversion, and other industrial and commercial uses.

All Eco Works formulations are certified compostable per ASTM D6400 and EN 13432 and can carry the BPI/USCC logo and the DIN CERTCO mark of conformity. The exact time needed for Eco Works products to biodegrade is dependent upon the conditions and activity of the disposal environment (temperature, soil quality, activity of microorganisms). When placed in a typical commercial composting environment, Eco Works films will fully biodegrade into carbon dioxide and water within a matter of weeks. There is no ecotoxicity to the soil, plants or microorganisms involved in this process. Since microorganisms are the means for biodegradation, Eco Works is shelf and curb stable and will retain its integrity until disposed of properly.

Eco Works films can be curtailed to meet the requirements of your application ranging from flexible to rigid films. Mechanical properties for various formulations are outlined in the table below.

FEATURES

- Renewable content (5-45%)
- Contains NO POLYETHYLENE
- Leaves no residue in finished compost
- Superior strength, shelf-life, and curb-life
- Comparable to HDPE
- Biodegrades at the same rate as common organic material when disposed of properly
- Conversion to CO₂ and H₂O in weeks under commercial composting
- Ideal for restaurants, schools, curb-side programs, and agricultural uses
- Conforms to ASTM D 6400 and EN 13432
- Approved by BPI/USCC and DIN CERTCO
- Can carry BPI/USCC logo and DIN CERTCO mark of conformity

Eco Works Mechanical Properties

Property		Test Method	Units	Eco Works 10	Eco Works 30	Eco Works 45
Caliper		ASTM D6988	mil	3.00	1.00	1.40
Breaking Factor	MD	ASTM D882-02	lbs/in	13.88	5.56	8.38
	TD			15.04	5.27	6.75
Tensile Strength at Break	MD	ASTM D882-02	psi	4206.70	5858.50	5917.60
	TD			4852.90	5545.50	4631.30
Elongation at Break	MD	ASTM D882-02	%	609.84	310.34	161.72
	TD			749.63	554.33	333.28
Yield Strength	MD	ASTM D882-02	psi	1886.41	2704.33	2911.55
	CD			1716.83	1505.53	2918.08
Tear Strength	MD	ASTM D1922-06a	mN	6184.22	706.32	361.01
	CD			1695.17	588.60	659.23
Dart Drop Impact Resistance		ASTM D1709-04, Test Method A	grams	N/A	761.41	87.10

*Typical properties represent average laboratory values and are intended as guides only, not as specifications. Film properties are typical of blown film extruded at a blow up ratio of 2.5:1, but are dependent upon operating conditions.



Eco Works® is intended to be disposed of in a commercial composting facility.

Check to see if facilities exist in your area.

Laboratory Compostability Study



t = 0



t = 15 days



t = 30 days



t = 43 days



t = 62 days



t = 76 days



t = 93 days



t = 112 days

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY CLOSED

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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.



Distributed by:

4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone (651) 429-1100, Fax (651) 429-1122
Toll Free (800) 4-CORTEC, E-mail info@cortecvci.com
Internet <http://www.CortecVCI.com>

printed on recycled paper  100% post consumer

Revised: 3/13/12. © Cortec Corporation 2002-2012. All rights reserved. Supersedes: 6/21/10.
Cortec®, Eco Works®, and VpCl® are trademarks of Cortec Corporation.
© 2012, Cortec Corporation. All Rights Reserved. Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited. ISO accreditation applies to Cortec's processes only.