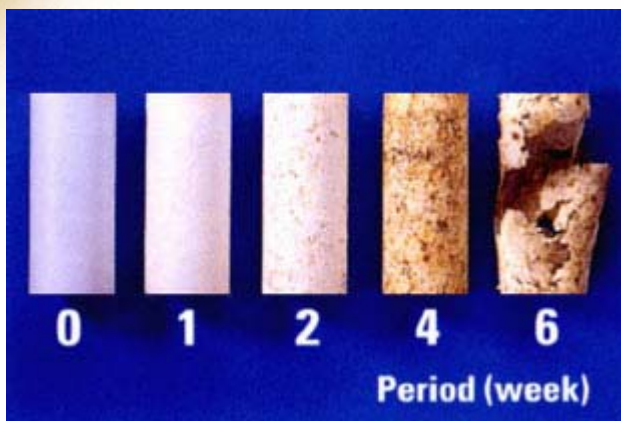


HIGH PERFORMANCE VpCI PACKAGING

EcoCorr[®] ESD

Biodegradable VpCI Static Dissipative Film and Bags



PRODUCT DESCRIPTION

EcoCorr[®] ESD is a 100% biodegradable and compostable film utilizing Cortec's patented VpCI[®] technology along with eliminating static electricity. In addition to offering 100% biodegradability, 100% compostability and VpCI[®] technology, EcoCorr[®] ESD provides better tensile strength, tear strength and ultimate elongation than low density polyethylene films. EcoCorr[®] ESD is also heat and water stable and does not disintegrate or break apart while in use.

EcoCorr[®] ESD provides contact, barrier, Vapor phase Corrosion Inhibitor (VpCI[®]) and anti-stat protection for up to two years depending on storage conditions. Once exposed to soil or compost conditions, EcoCorr[®] ESD will disintegrate rapidly (within weeks) and completely without contaminating the soil.

TYPICAL PROPERTIES of blown film, 2 mils (50 microns)

Property	Test method	Unit	Value	
			Eco-Corr ESD	LDPE
Melting point	DSC	°C	110-115	111
Transparency	ASTM D-1003	%	82	89
Tensile strength (MD/CD)	ISO 527	N/mm ²	32/36	26/20
Ultimate elongation (MD/CD)	ISO 527	%	580/820	300/600
Failure energy (Dyna-Test)	DIN 53373	J/mm	14.3	5.5
Permeation rates: oxygen	DIN 53380	Cm ³ /m ² d·bar	1600	2900



FEATURES

- The first and only 100% biodegradable, 100% compostable packaging film that provides contact, barrier and vapor corrosion inhibition
- Provides multimetal corrosion inhibitor protection
- Extremely elastic
- Complete replacement for non-degradable and inferior blend films
- Meets ASTM D 6400-99, the standard used by DIN Certco, BPS, BPI and others
- Compostable Testing under DIN V 54 900
- Plant Growth Testing under RAL GZ 251
- Ground Water Testing under DIN 38412 Part 30
- Static Decay rate conformance to MIL-PRF-81705D

MILITARY STANDARDS

MIL-PRF-81705D
Federal Test Methods No. 101C, Method 4046

	Surface Resistivity (Ohm/Sq)		Static Decay Rate (sec)	
	Limit 1.0 x 10 ⁹ to 1.0 x 10 ¹²			
	Outside	Inside	+5000 Volts	-5000 Volts
Sample 1	9.1 x 10 ⁹	9.0 x 10 ⁹	0.03	0.03
Sample 2	1.0 x 10 ¹⁰	9.4 x 10 ⁹	0.03	0.03
Sample 3	9.2 x 10 ⁹	1.0 x 10 ¹⁰	0.02	0.03
Sample 4	1.0 x 10 ¹⁰	8.0 x 10 ⁹	0.03	0.03
Sample 5	1.1 x 10 ¹⁰	9.2 x 10 ⁹	0.03	0.03
Sample 6	1.0 x 10 ¹⁰	9.6 x 10 ⁹	0.03	0.03

APPLICATIONS

Metal parts packaged in EcoCorr® ESD receive continuous protection against salt, excessive humidity, condensation, moisture, aggressive industrial atmosphere and dissimilar metal corrosion. The Vapor phase Corrosion Inhibitors vaporize and then condense on all metal surfaces in the enclosed package. VpCI® reaches every area of your part, protecting its exterior as well as hard to reach interior surfaces. You get complete product protection during storage as well as during domestic and overseas shipments, virtually eliminating any rust claims.

Once the film is no longer needed, EcoCorr® ESD can be composted and will degrade into carbon dioxide and water within weeks.

SHELF LIFE

For shipping and storage applications, EcoCorr® ESD is a great alternative to conventional polyethylene films. EcoCorr® Anti-Stat has a shelf life of up to two years, when sealed in original packaging.

Once removed and put to use, EcoCorr® ESD will remain effective with regard to mechanical strength until film is placed in contact with material containing microorganisms, such as certain types of waste, soil, and compost. Under these conditions, 100% disintegration will occur within a few weeks with no residual contamination of the soil.

PACKAGING

EcoCorr® ESD is available in standard length 36" (91.4cm) and 48" (122 cm) rolls as well as a wide variety of custom sizes and forms. Custom products include single wound sheeting, double wound sheeting, U-sheets, M-sheets, center folds, gusset tubes, converted bags made from these types of film and perforated or bag-on-a-roll products.

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.CortecVpCI.com>

printed on recycled paper  100% post consumer

Revised 3/23/04. ©Cortec Corporation 2004. All rights reserved. Supersedes: 2/2/04.
Cortec®, EcoCorr® and VpCI® are trademarks of Cortec Corporation.