

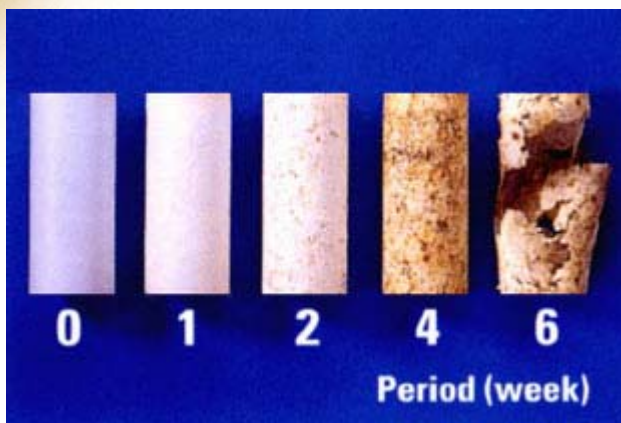
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# HIGH PERFORMANCE VpCI PACKAGING

## EcoCorr<sup>®</sup> ESD

### Biodegradable VpCI Static Dissipative Film and Bags



#### PRODUCT DESCRIPTION

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

EcoCorr<sup>®</sup> ESD provides contact, barrier, Vapor phase Corrosion Inhibitor (VpCI<sup>®</sup>) and anti-stat protection for up to two years depending on storage conditions. Once exposed to soil or compost conditions, EcoCorr<sup>®</sup> 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 <sup>2</sup>	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 <sup>3</sup> /m <sup>2</sup> 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 <sup>9</sup> to 1.0 x 10 <sup>12</sup>			
	Outside	Inside	+5000 Volts	-5000 Volts
Sample 1	9.1 x 10 <sup>9</sup>	9.0 x 10 <sup>9</sup>	0.03	0.03
Sample 2	1.0 x 10 <sup>10</sup>	9.4 x 10 <sup>9</sup>	0.03	0.03
Sample 3	9.2 x 10 <sup>9</sup>	1.0 x 10 <sup>10</sup>	0.02	0.03
Sample 4	1.0 x 10 <sup>10</sup>	8.0 x 10 <sup>9</sup>	0.03	0.03
Sample 5	1.1 x 10 <sup>10</sup>	9.2 x 10 <sup>9</sup>	0.03	0.03
Sample 6	1.0 x 10 <sup>10</sup>	9.6 x 10 <sup>9</sup>	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

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