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HIGH PERFORMANCE VpCI® PACKAGING

Eco-Corr® ESD

Biodegradable VpCI Static Dissipative Film and Bags, Patented



PRODUCT DESCRIPTION

Eco-Corr 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, Eco-Corr ESD provides better tensile strength, tear strength and ultimate elongation than low density polyethylene films. Eco-Corr ESD is also heat and water stable and does not disintegrate or break apart while in use.

Eco-Corr ESD is certified 100% biodegradable and compostable by the Biodegradable Products Institute/ United States Composting Council (BPI/USCC) according to ASTM D6400. When placed in a typical commercial composting environment, Eco-Corr ESD 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. The exact time for films to biodegrade is dependent upon the conditions and activity of the disposal environment (temperature, soil quality, activity of microorganisms). Eco-Corr ESD films are shelf stable and will not break down prematurely until disposed of in a proper composting environment.

Eco-Corr ESD is patented under US patents 6,028,160 and 6,156,929.

FEATURES

- 100% biodegradable, 100% compostable packaging film that provides contact, barrier, and vapor corrosion inhibition

- Provides multimetal corrosion inhibitor protection
- Meets NACE TM0208-2008 standard for corrosion protection
- Meets German TL-8135-002 standard for corrosion 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
- Static Decay rate conformance to MIL-PRF-81705D

MILITARY STANDARDS

MIL-PRF-81705D				
Federal Test Methods No. 101C, Method 4046				
Sample #	Surface Resistivity (Ohm/Sq)		Static Decay Rate (sec)	
	Limit 1.0 x 10 ⁵ to 1.0 x 10 ¹²		Limit 2 seconds	
	Outside	Inside	+5000 Volts	-5000 Volts
1	9.1 x 10 ⁹	9.0 x 10 ⁹	0.03	0.03
2	1.0 x 10 ¹⁰	9.4 x 10 ⁹	0.03	0.03
3	9.2 x 10 ¹⁰	1.0 x 10 ¹⁰	0.02	0.03
4	1.0 x 10 ¹⁰	8.0 x 10 ⁹	0.03	0.03
5	1.1 x 10 ¹⁰	9.2 x 10 ⁹	0.03	0.03
6	1.0 x 10 ¹⁰	9.6 x 10 ⁹	0.03	0.03



Property		Test Method	Units	Eco-Corr ESD	VpCI-126
Caliper		ASTM D6988	mil	2.00	2.00
Breaking Factor	MD	ASTM D882-02	lbs/in	10.40	18.88
	TD			10.81	18.25
Tensile Strength at Break	MD	ASTM D882-02	psi	4728.20	3184.35
	TD			4699.10	3109.60
Elongation at Break	MD	ASTM D882-02	%	759.38	770.37
	TD			795.89	833.65
Yield Strength	MD	ASTM D882-02	psi	991.44	793.85
	CD			1093.16	1425.18
Tear Strength	MD	ASTM D1922-06a	mN	3719.95	15852.96
	CD			4959.94	20279.24
Dart Drop Impact Resistance		ASTM D1709-04, Test Method A	grams	> 1300	753.28

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

APPLICATIONS

Metal parts packaged in Eco-Corr 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, Eco-Corr ESD can be composted and will degrade into carbon dioxide and water within weeks.

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

SHELF LIFE

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

Once removed and put to use, Eco-Corr 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

Eco-Corr 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.

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.

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