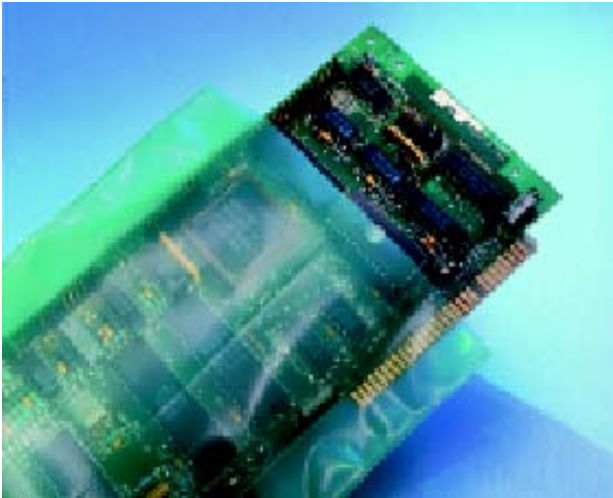


## VpCI®-125 CoExtruded Static Dissipative Film and Bags



### PRODUCT DESCRIPTION

VpCI-125 Static Dissipative Film and Bags are unique in their ability to prevent corrosion and ESD damage. This film combines the most effective multimetal corrosion protection with strong static dissipative properties. Cortec VpCI films and bags replace conventional rust preventatives such as oils and desiccants, allowing your product to be used immediately without cleaning or degreasing. VpCI-125 bags effectively protect components from electrostatic discharge. VpCI-125 conforms to the surface resistivity and static decay requirements of MIL-PRF-81705D (Static Dissipative Packaging Materials). VpCI-125 is non-toxic and doesn't contain free amines, phosphates, silicones, or other harmful materials.

### ADVANTAGES

- Contains Vapor phase Corrosion Inhibitors (VpCI) to protect void spaces and recessed areas
- Provides multimetal VpCI protection to ferrous and non-ferrous metals
- Prevents ESD damage
- Does not affect optical properties
- Does not affect plastics used in electronic industry
- Does not contain free amines or toxic compounds

### VARIETY OF SIZES

VpCI-125 is available as a coextruded or monolayer film in custom-size bags in both heat-sealable and zipper closure form, film, and tubing. VpCI-125 is available in thicknesses from 50-150 microns and various widths from 300-4000 mm depending on construction

### PERFORMANCE

ESD properties conform to MIL-PRF-81705 D:

- Surface resistivity greater than  $1 \times 10^5 \Omega/\text{sq.}$  and less than  $1 \times 10^{12} \Omega/\text{sq.}$
- Static decay rate  $< 2 \text{ sec}$

Anti-stat film properties conform to requirement of IEC-61340-5-1:

- Surface resistivity between  $10^5$  and  $10^{11} \Omega$

### APPLICATIONS

VpCI-125 Static Dissipative Bags and Film are recommended for packaging of static-sensitive and non-static sensitive components where triboelectric charge generation and corrosion are concerns. VpCI-125 is recommended for packaging of integrated circuits, printed circuit boards, PCB components, telecommunications equipment, electronic and electrical panels, and enclosures.

## METALS PROTECTED

VpCI-125 forms a monomolecular layer on metal substrates, which does not interfere with the physical or chemical properties of electronic components. Metals VpCI-125 protects include:

- Steel
- Aluminum, alloys
- Solder
- Various plated substrates
- Copper, alloys
- Brass
- Silver
- Nickel

For metals not specifically listed above, contact Cortec for information regarding their protection.

## MECHANICAL PROPERTIES

Property		Test Method	Units	VpCI-125 CoExtruded film		
Caliper	MD	ASTM D6988	μm	50.00	100.00	150.00
Tensile Strength at Break	MD	ASTM D882-02	psi	3780.49	2972.68	3072.54
	TD			2790.21	3172.78	3279.37
Elongation at Break	MD	ASTM D882-02	%	141.80	513.50	612.00
	TD			677.00	781.00	870.00

\*Typical values represent average laboratory values and are intended as guides only, not as specifications

## PACKAGING AND STORAGE

VpCI-125 should be stored indoors at ambient temperatures, sealed in it's original packaging. The shelf life is up to one year in original packaging. Film should be sealed to minimize air exchange.

VpCI-125 CoExtruded film is produced by EcoCortec, a European subsidiary of Cortec Corporation.

## 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](mailto:info@cortecvci.com)  
Internet <http://www.CortecVCI.com>

printed on recycled paper  100% post consumer  
Revised: 12/12/12 ©Cortec Corporation 2009-2012. All rights reserved. Supersedes: 10/28/09.  
Cortec®, CorShield® 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.