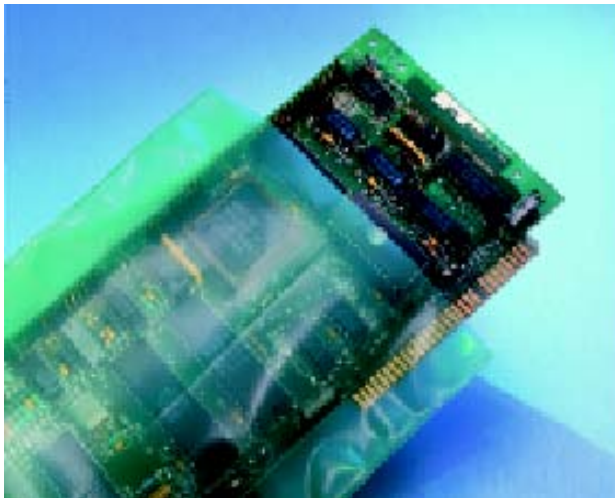




## VpCI®-125 Static Dissipative Film and Bags



### 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 in custom-size bags in both heat-sealable and zipper closure form, film, and tubing. VpCI-125 is available in thicknesses from 2-6-mils (50-150 microns), with a maximum tube size of 50" (1.3 m).

### PERFORMANCE

ESD properties conform to MIL-PRF-81705 D:

- Surface resistivity between  $1 \times 10^5 \Omega/\text{sq.}$  and  $1 \times 10^{12} \Omega/\text{sq.}$
- 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.

## 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.

## MECHANICAL PROPERTIES

Property		Test Method	Units	Typical Values*
Breaking Factor	MD	ASTM D882-02	lbs/in	12.42
	TD			13.36
Tensile Strength at Break	MD	ASTM D882-02	psi	3014.10
	TD			3341.50
Elongation at Break	MD	ASTM D882-02	%	514.61
	TD			767.37
Yield Strength	MD	ASTM D882-02	psi	1193.60
	CD			1692.79
Tear Strength	MD	ASTM D1922-06a	mN	3924.00
	CD			16229.66
Dart Drop Impact Resistance		ASTM D1709-04, Test Method A	grams	406.20

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

## 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**

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