



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

EcoSonic® VpCI®-125 Static Dissipative Film & Bags

DESCRIPTION

EcoSonic® VpCI®-125 Static Dissipative Film and Bags are unique in their ability to prevent corrosion and ESD damage. This film combines the most effective multi-metal 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.

EcoSonic® VpCI®-125 bags effectively protect components from electrostatic discharge. EcoSonic® VpCI®-125 conforms to the surface resistivity and static decay requirements of MIL-PRF-81705 D (Static Dissipative Packaging Materials). EcoSonic® VpCI®-125 is safe to use and does not contain any harmful Prop 65 ingredients.

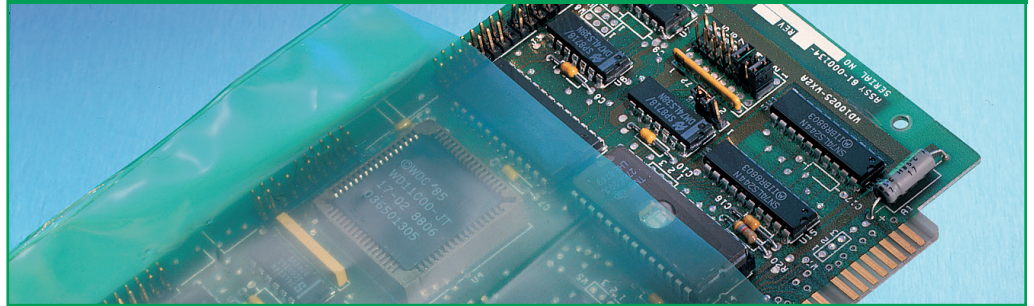
EcoSonic® VpCI®-125 has been tested effective for up to 3 years of corrosion protection and 2 years of ESD protection.

PACKAGING & STORAGE

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 1 year

HIGH PERFORMANCE VpCI® PACKAGING



ADVANTAGES

- Contains Vapor phase Corrosion Inhibitors (VpCI®) to protect void spaces and recessed areas
- Provides multi-metal 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 harmful Prop 65 ingredients
- Does not affect solderability of PCB or parts (IPC-J-STD-003C)

VARIETY OF SIZES

EcoSonic® VpCI®-125 is available in custom-size bags in both heat-sealable and zipper closure form, film, and tubing.

EcoSonic® VpCI®-125 is available in thicknesses from 2-6 mils (50-150 microns), with a maximum tube size of 50" (1.3 m).

METALS PROTECTED

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

- Steel
- Copper, alloys
- Aluminum, alloys
- Brass
- Solder
- Nickel

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

EcoSonic® VpCI®-125 Static Dissipative Film & Bags

PERFORMANCE

ESD properties conform to MIL-PRF-81705 D:

- Surface resistivity between 10^5 and $10^{12} \Omega$
- Static decay rate <2 sec

TECHNICAL PROPERTIES

Property		Test Method	Units	Typical Values*
Caliper		ASTM D6988	mil	3.0
Breaking Factor	MD	ASTM D882-02	lbs/in	12.4
	CD			13.4
Tensile Strength at Break	MD	ASTM D882-02	psi	3014
	CD			3342
Elongation at Break	MD	ASTM D882-02	%	515
	CD			767
Yield Strength	MD	ASTM D882-02	psi	1194
	CD			1693
Tear Strength	MD	ASTM D1922-06a	mN	3924
	CD			16230
Dart Drop Impact Resistance		ASTM D1709-04 Test Method A	grams	406

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

APPLICATIONS

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



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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.

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