

# EcoSonic® VpCI®-125 HP Permanent ESD Film & Bags

## DESCRIPTION

EcoSonic® VpCI®-125 HP Permanent ESD Film and Bags are high-performance inherently static-dissipative corrosion inhibiting film and bags for use in the protection of static sensitive multi-metal items such as electronics. They contain permanent static-dissipative properties to immediately reduce or eliminate static buildup as long as the films or bags are in use, independent of the presence of humidity. They also form a molecular corrosion inhibiting layer on metal substrates and do not interfere with the physical or chemical properties of electronic components. The film and bags replace conventional rust preventatives such as barrier films and desiccants and allow your product to be used immediately without cleaning or degreasing. EcoSonic® VpCI®-125 HP Permanent ESD Films and Bags are safe to use and do not contain any harmful Prop 65 ingredients.

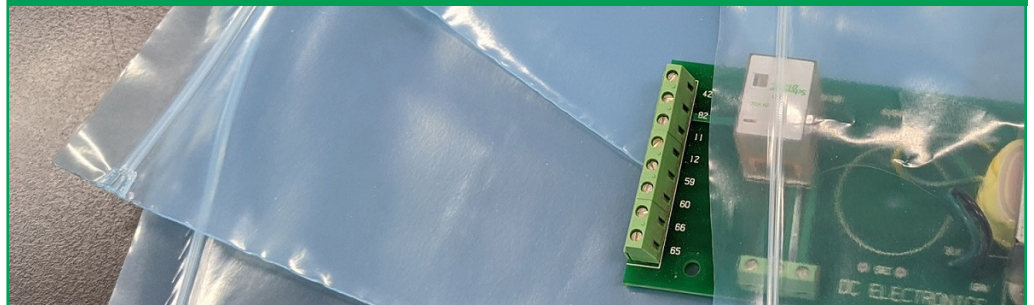
## PACKAGING & STORAGE

Available in custom-size bags (heat-sealable or zipper closure), film, and tubing. Thicknesses range from 2-6 mils (50-150 microns); maximum gusseted lay-flat size: 180" (4.57 m) (contact Cortec® for specific details).

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

Shelf life: 2 years

## HIGH PERFORMANCE VpCI® PACKAGING



## FEATURES

- Contains Vapor phase Corrosion Inhibitors (VpCI®) to protect void spaces and recessed areas
- Contains permanent static-dissipative agent
- Does not affect optical properties
- Does not affect plastics used in electronics industry
- Does not affect solderability of PCB or parts (IPC-J-STD-003C)
- Does not contain free amines or harmful Prop 65 ingredients

## BENEFITS

- Protects ferrous and non-ferrous metals from corrosion
- Prevents ESD damage

## METALS PROTECTED

- Steel
- Copper Alloys
- Aluminum Alloys
- Brass
- Solder
- Nickel

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

## APPLICATION

EcoSonic® VpCI®-125 HP Permanent ESD Films and Bags are recommended for packaging of static-sensitive components where triboelectric charge generation and corrosion are concerns. They are recommended for packaging integrated circuits, printed circuit boards, PCB components, telecommunications equipment, electronic and electrical panels, and enclosures.

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## TECHNICAL PROPERTIES

Electrical Properties				
Property	Test Method		Typical Values*	
Surface Resistance	ANSI/ESD STM11.11		1x10 <sup>5</sup> - 1x10 <sup>10</sup> Ohms	
Static Decay	MIL-STD 3010, Method 4046		<2.0 seconds at a 10% cutoff threshold	
Mechanical Properties				
Property		Test Method	Units	Typical Values*
Caliper		ASTM D6988	mil (µm)	4.00 (100)
Breaking Factor	MD	ASTM D882-02	lbs/in (N/m)	11.65 (2040)
	CD			10.52 (1842)
Tensile Strength at Break	MD	ASTM D882-02	psi (MPa)	2874 (19.8)
	CD			2598 (17.9)
Elongation at Break	MD	ASTM D882-02	%	588.56
	CD			618.81
Yield Strength	MD	ASTM D882-02	psi (MPa)	1586 (10.9)
	CD			1465 (10.1)
Tear Strength	MD	ASTM D1922-06a	lbf (gf)	1.84 (838.40)
	CD			2.23 (1011.20)
Dart Drop Impact Resistance		ASTM D1709-04 Test Method A	lbs (g)	0.70 (316.70)
Puncture Resistance	Outside	MIL-STD-3010, TM 2065	lbf (gf)	7.25 (3288)
	Inside			7.48 (3393)
Coefficient of Friction		ASTM D1894	static	0.42
			kinetic	0.47

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



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### LIMITED WARRANTY

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