



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

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

DESCRIPTION

EcoSonic® VpCI®-125 HP Permanent ESD Films and Bags are high-performance anti-static, corrosion inhibiting film and bags for use in the protection of static sensitive multi-metal items such as electronics. They contain permanent anti-static 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 oils 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.

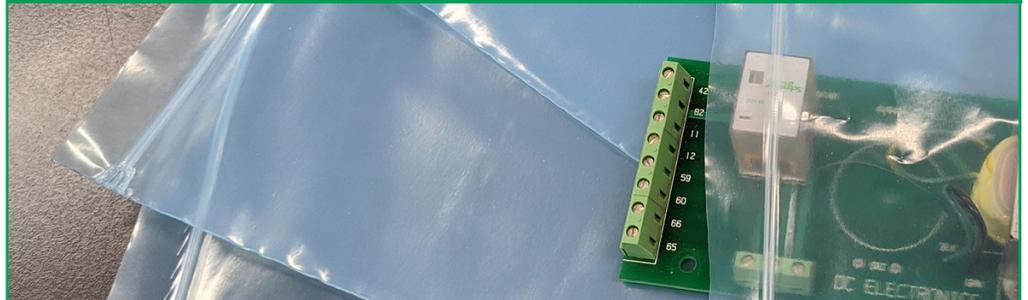
PACKAGING & STORAGE

Available in custom-size bags (heat-sealable or zipper closure), film, and tubing. Thicknesses range from 2-6 mils (50-150 microns); maximum tube size: 50" (1.3 m).

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 anti-static 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.

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

TECHNICAL PROPERTIES

ESD properties of EcoSonic® VpCI®-125 HP Permanent ESD Films and Bags exceed requirements of MIL-PRF-81705 D for Surface Resistivity and Static Decay:

- Surface Resistivity: 1.0×10^5 to 1.0×10^{11}
- Static Decay Rate: Less than 2 seconds at 10% threshold

MECHANICAL PROPERTIES*

Property		Test Method	Units	Test 1
Caliper		ASTM D6988	mil	4.00
Breaking Factor	MD	ASTM D882-02	lbs/in	11.65
	CD			10.52
Tensile Strength at Break	MD	ASTM D882-02	psi	2874
	CD			2598
Elongation at Break	MD	ASTM D882-02	%	588.56
	CD			618.81
Yield Strength	MD	ASTM D882-02	psi	1586.45
	CD			1465.48
Tear Strength	MD	ASTM D1922-06a	gram force	838.40
	CD			1011.20
Dart Drop Impact Resistance		ASTM D1709-04 Test Method A	grams	316.70
Puncture Resistance	Outside	MIL-STD-3010, TM 2065	lbf	7.25
	Inside			7.48
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*



4119 White Bear Parkway, St. Paul, MN 55110 USA
 Phone (651) 429-1100, Fax (651) 429-1122
 Toll Free (800) 4-CORTEC
 info@cortecvc.com
<https://www.cortecvc.com>
<https://www.cortecpackaging.com>



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.