



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

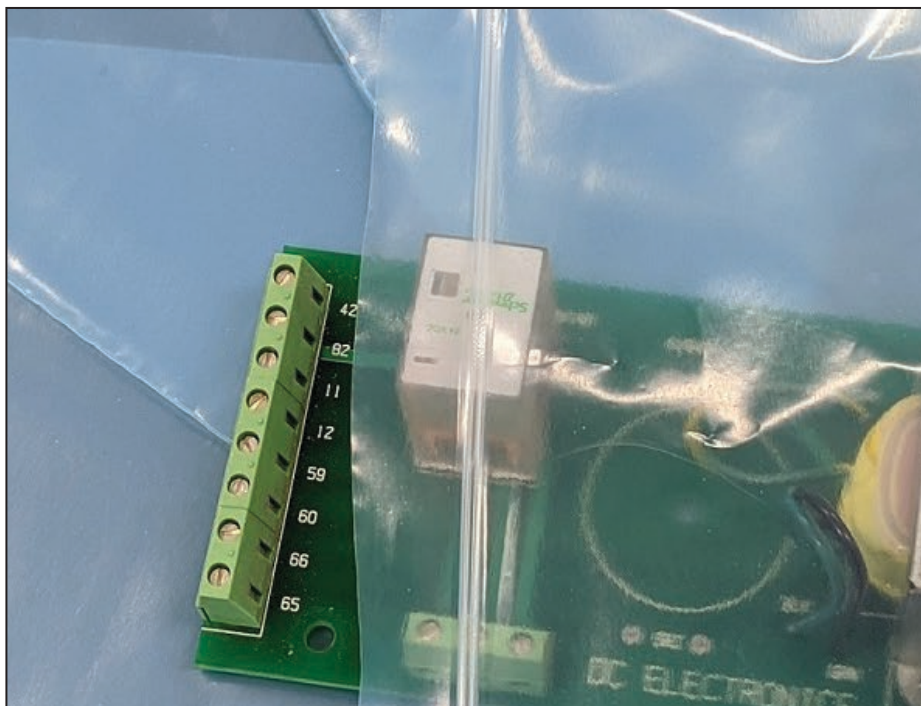
PRODUCT DESCRIPTION

EcoSonic® VpCI®-125 PCR 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 PCR HP Permanent ESD Film and Bags has been developed with a high amount of post-consumer recycled content for the purpose of efficient recovery, recycling, and reuse of resources to minimize the economy's negative ecological footprint.

EcoSonic® VpCI®-125 PCR HP Permanent ESD helps customers meet their sustainability goals without compromising quality specifications related to mechanical, corrosion inhibiting properties and static discharge.

Ecocortec continues on its mission of innovation, to our knowledge this is the first permanent ESD film powered by Nano-VpCI® with high content of post consumer recycled plastic in the WORLD.



PACKAGING & STORAGE

Available in custom-size bags (heat-sealable or zipper closure), film, and tubing. Thicknesses range from 50-150 microns (2-6 mils); tube width (layflat): minimum 900 mm to maximum 1800 mm (35.4"-70.9").

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

Shelf life: 2 years

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)
- Made with guaranteed 30% post-consumer recycled content
- Uses recycled content of high, consistent quality Recyclable
- Conforms to NACE Standard RP 0487-2000
- Conforms to MIL-PRF-81705, IEC 61340-5-1

EcoSonic® VpCl®-125 PCR HP Permanent ESD Film & Bags

METALS PROTECTED

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

BENEFITS

- Protects ferrous and non-ferrous metals from corrosion
- Prevents ESD damage
- Contributes to “circular economy” by using recycled content

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

APPLICATION

EcoSonic® VpCl®-125 PCR 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.

TECHNICAL PROPERTIES

ESD properties of EcoSonic® VpCl®-125 PCR 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^{12}
- Static Decay Rate: Less than 2 seconds at 10% threshold

MECHANICAL PROPERTIES*

Properties		Test method	Units	EcoSonic® VpCl®-125 HP ESD	EcoSonic® VpCl®-125 PCR HP ESD
Thickness		ASTM D6988	µm (mil)	120 (4,7)	120 (4,7)
Tensile Strength at Break	MD	ASTM D882-	MPa (psi)	25,82 (3744.87)	21,93 (3180.68)
	CD			23,30 (3379.38)	18,06 (2619.38)
Elongation at break	MD	ASTM D882	%	911,6	833,24
	CD			911,9	804,61
Tear Strength	MD	ASTM D1922	mN	18939,84	7848,00
	CD			26997,12	19253,76
Impact Puncture		ASTM D3420	N	26,16	17,37
			J	2,25	1,50
Kinetic coefficient of friction		ASTM D1894		0,27	0,35
Static coefficient of friction		ASTM D1894		0,31	0,36

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

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