

EcoSonic® VpCI®-125 HP Permanent ESD Stretch Film

DESCRIPTION

EcoSonic® VpCI®-125 HP Permanent ESD Stretch Film is a high performance inherently static-dissipative corrosion inhibiting stretch film ideal for electronics, munitions, fertilizers, and any industrial applications where static discharge could result in dangerous packaging conditions. Permanent static-dissipative properties work independently of the presence of humidity, immediately reducing or eliminating static buildup in the low-conductivity, high pressure/friction environment of stretch wrapping and ensuring a long shelf life. Vapor phase Corrosion Inhibitors form a molecular corrosion inhibiting layer on metal surfaces and do not interfere with the physical or chemical properties of electronic components.

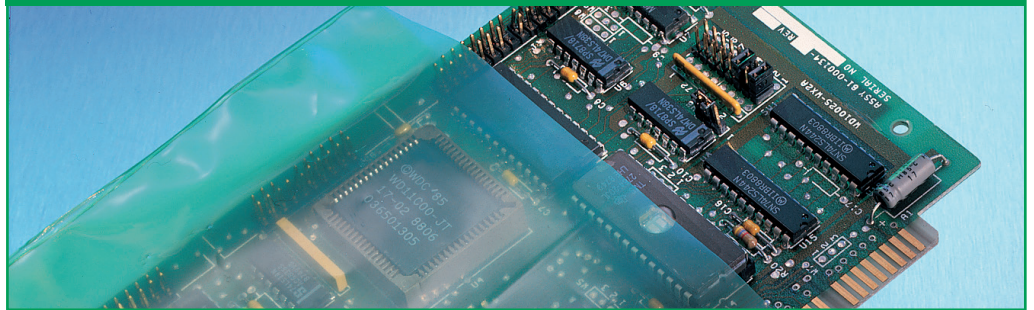
PACKAGING & STORAGE

Available in 12" (30.5 cm), 15" (38 cm), 18" (45.75 cm), and 20" (50 cm) widths in the following thicknesses: 1.0 mil (25 µm) or 1.5 mil (38 µm). All sizes made to order. Contact Cortec® Customer Service for custom requirements and lead times.

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

- Multi-functional protection (VpCI® + permanent static-dissipative agent)
- Meets NACE TM0208-2018 standard for corrosion protection
- Meets static decay requirements per MIL-STD 3010, Method 4046, before and after being stretched

BENEFITS

- Provides multi-metal corrosion protection in void spaces and recessed areas
- Protects electronic parts from damage of electrostatic discharge
- Eliminates static caused by traditional stretch film
- Safe to handle and apply
- Allows easy inspection (see-through film)
- Does not interfere with electrical, optical, or mechanical surface properties
- Long shelf life; easy inventory management
- Fully recyclable in applicable facilities (LLDPE #2 plastic)

METALS PROTECTED

- Aluminum
- Galvanized Steel
- Carbon Steel
- Silicon Steel
- Stainless Steel
- Copper
- Brass
- Cast Iron

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APPLICATION

EcoSonic® VpCI®-125 HP Permanent ESD Stretch Film can be used on standard stretch wrapping equipment for packaging of

- Electronics
- Munitions
- Fertilizers
- Other static sensitive materials

Electrostatic Dissipative Properties		
Property	Test Method	Typical Values*
Surface Resistance	ANSI/ESD STM11.11	1x10 ⁵ – 1x10 ¹⁰ Ohms
Static Decay	MIL-STD 3010, Method 4046	<2.0 seconds at a 10% cutoff threshold

Mechanical Properties				
Property		Test Method	Units	Typical Values*
Thickness		ASTM D6988	mil (µm)	1.50 (38)
Breaking Factor	MD	ASTM D882	lbs/in (N/m)	4.665 (817)
	CD			3.928 (688)
Tensile Strength at Break	MD	ASTM D882	psi (kPa)	3110 (21,443)
	CD			2619 (18,057)
Elongation at Break	MD	ASTM D882	%	492.02
	CD			546.06
Yield Strength	MD	ASTM D882	psi (kPa)	1733.75 (11,954)
	CD			1445.95 (9969)
Dart Drop Impact Resistance		ASTM D1709, Test Method A	g	378.20
Puncture Resistance	Outside	MIL-STD-3010, TM 2065	lbf (N)	3.58 (15.9)
	Inside			5.204 (23.1)
Tear Strength	MD	ASTM D1922	mN (gf)	2840 (289.6)
	CD			7955 (811.2)
Cling Peel		ASTM D5458	gf/in	83.45

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

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