



VpCI®-125 HP Permanent ESD Stretch Film

DESCRIPTION

VpCI®-125 HP Permanent ESD Stretch Film is a high-performance static-dissipative corrosion inhibiting stretch film. Ideal for electronics and other industrial applications where static discharge could result in dangerous or damaging packaging conditions, VpCI®-125 HP Permanent ESD Stretch Film dissipates static electricity as soon as it builds, independent of humidity conditions. Unlike conventional stretch films, which tend to build static charges as they stretch, VpCI®-125 HP Permanent ESD dissipates as it wraps, ensuring products are continually protected from electrostatic discharge.

With Cortec®'s unique Vapor phase Corrosion Inhibitor (VpCI®) technology, products enclosed with VpCI®-125 HP Permanent ESD Stretch Film are also protected from rust, scaling, and other forms of oxidization. By vaporizing within the enclosed environment, Cortec®'s corrosion inhibitors form a molecular layer on every metal surface, no matter how hard-to-reach, forming a barrier against corrosion that requires no cleaning or degreasing, ensuring your electronics parts are immediately ready for use.

FEATURES

- Multi-functional protection with VpCI® and permanent ESD properties
- Meets NACE TM0208-2024 standard for corrosion protection
- Meets both MIL-STD-3010C Method 4046 and Surface Resistance ANSI/ESD STM11.11 standards for ESD protection both before and after film is stretched

BENEFITS

- Provides multi-metal corrosion protection in void spaces and recessed areas
- Protects electronic parts from damage or electrostatic discharge
- Eliminates static caused by traditional stretch films
- Safe to handle and apply
- Transparent design allows for easy inspection
- Does not interfere with electrical, optical, or mechanical surface properties
- Long shelf life allows for easy inventory management
- Permanent ESD protection throughout lifetime of film
- Fully recyclable in applicable facilities (LLDPE #2 plastic)
- Protects aluminum, steel (stainless, galvanized, carbon, silicon), copper, brass, and cast iron

PACKAGING & STORAGE

VpCI®-125 HP Permanent ESD Stretch Film is available in 1.0 and 1.5 mil (25 and 38 µm) thicknesses, and in 12" (30.5cm), 15" (38cm), 18" (45.75cm), and 20" (50cm) widths. For custom sizes and lead times, please contact Cortec® Customer Service.

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.

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TYPICAL PROPERTIES*

Electrostatic Properties				
Property	Test Method		Values	
Surface Resistance	ANS/ESD STM11.11		1x10 ⁵ – 1x10 ¹⁰ Ohms	
Static Decay	MIL-STD 3010 C Method 4046		<2.0 seconds at 10% cutoff threshold	
Mechanical Properties				
Property	Test Method		Units	Values
Caliper		ASTM D6988	mil (µm)	1.50 (38)
Breaking Factor	MD	ASTM D882-02	lbs/in (N/m)	4.665 (817)
	CD			3.928 (688)
Tensile Strength at Break	MD	ASTM D882-02	psi (kPa)	3,110 (21,443)
	CD			2,619 (18,057)
Elongation at Break	MD	ASTM D882-02	%	492.02
	CD			546.06
Yield Strength	MD	ASTM D882-02	psi (kPa)	1,733.75 (11,954)
	CD			1,445.95 (9,969)
Dart Drop Impact Resistance		ASTM D1709-04, TM A	g	378.20
Puncture Resistance	Outside	MIL-STD-3010, TM 2065	lbf (gf)	3.58 (15.9)
	Inside			5.204 (23.1)
Tear Strength	MD	ASTM D1922-06A	mN (gf)	2,840 (289.6)
	CD			7,955 (811.2)
Cling Peel		ASTM D5458	gf/in	8.45

* Typical values represent average values for 2 mil thickness and are intended as guides only, not as lot specifications.

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