



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

EcoSonic® ESD Stretch Film powered by Nano VpCI®

DESCRIPTION

EcoSonic® ESD Stretch Film meets the anti-static requirements under MIL-PRF-81705 E in the form of a high performance stretch film with multi-metal corrosion inhibitors and ESD protection!

The poor electrical conductivity of plastic film requires special attention in packaging applications where static discharges are unacceptable. Pressure and friction during stretch-wrapping applications will produce static discharges. These can be quite significant and cannot be dissipated by grounding.

Cortec® Laboratories has developed this specialty film for electronics, munitions, fertilizers, and any industrial applications where static discharge could result in dangerous packaging conditions.

Meets NACE TM0208-2018 standard for corrosion protection.

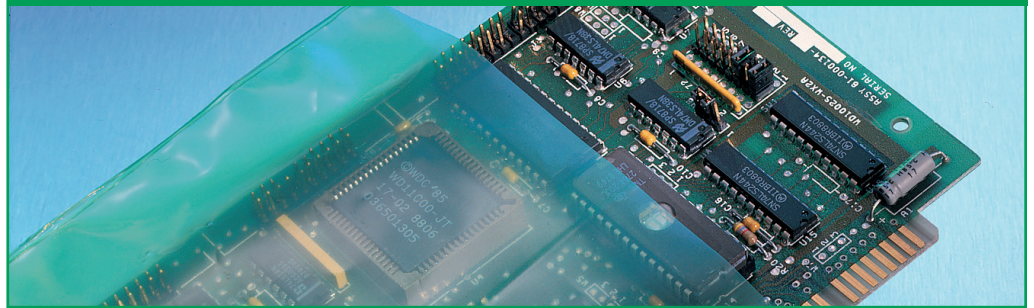
PACKAGING & STORAGE

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: 1 year

HIGH PERFORMANCE VpCI® PACKAGING



FEATURES

- Dissipates static discharges
- Vapor phase Corrosion Inhibiting Technology
- High-performance stretch film
- Acceptable in harsh environments
- See-through packaging
- Cost-effective system
- LLDPE #2 plastic
- Non-hazardous
- Multi-functional protection

BENEFITS

- Meets static decay requirements per MIL-PRF-81705 E
- Provides multi-metal corrosion protection
- Eliminates normal stretch film static
- Eliminates costly barrier packaging
- Fully recyclable in applicable facilities
- Safe to handle and apply
- Does not interfere with electrical, optical, or mechanical surface properties

METALS PROTECTED

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

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PERFORMANCE

ESD properties conform to MIL-PRF-81705 E:

- Surface resistivity between 10^5 and $10^{12} \Omega$
- Static decay rate <2 sec

TECHNICAL PROPERTIES

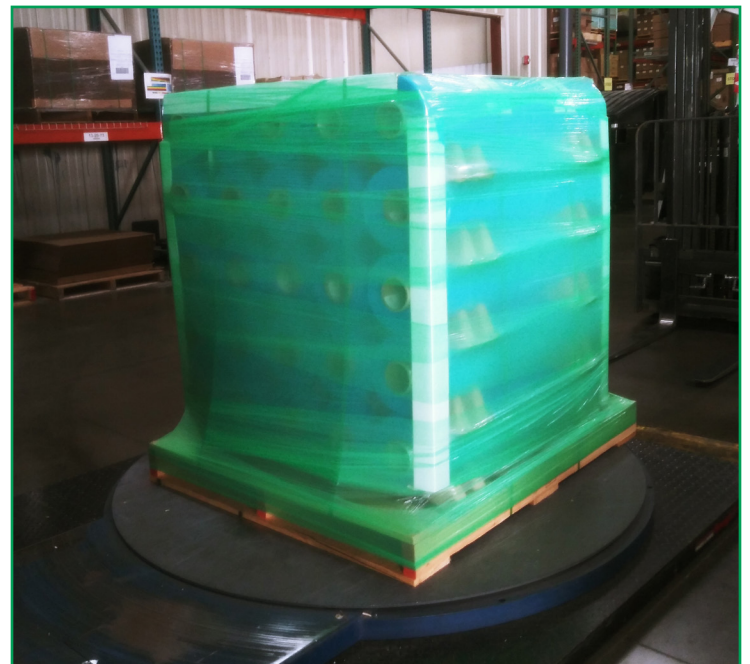
Property		Test Method	Units	Typical Values*
Caliper		ASTM D6988	mil (μm)	1.50 (38)
Breaking Factor	MD	ASTM D882-02	lbs/in (N/m)	5.92 (1030)
	CD			4.41 (769)
Tensile Strength at Break	MD	ASTM D882-02	psi (kPa)	3893 (26840)
	CD			3535 (24370)
Elongation at Break	MD	ASTM D882-02	%	553.73
	CD			632.37
Yield Strength	MD	ASTM D882-02	psi (kPa)	1817.40 (12531)
	CD			1163.96 (8022.22)
Tear Strength	MD	ASTM D1922-06a	mN	4432
	CD			4393
Dart Drop Impact Resistance		ASTM D1709-04 Test Method A	grams	458.20
Puncture Resistance	Outside	MIL-STD-3010, TM 2065	lbf (N)	3.20 (14.2)
	Inside			5.20 (23.1)

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

APPLICATIONS

EcoSonic® ESD Stretch Film can be used on standard manual and automatic stretch wrapping equipment (hand wrapping recommended for 12" [30.5 cm] and 15" [38 cm] widths). It is ideal for packaging and unitizing of loads in any application that dictates the absence of electrical shock, such as the following:

- Computers and telecommunications equipment
- Laboratory instruments
- Electrical panels/components
- Marine, aerospace, and military instruments
- Medical devices sensitive to electrical interference
- Munitions
- Loads of gun powders and finished explosives
- Volatile products in controlled environments
- Loads in fertilizer plants where nitrites and nitrates are present



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