CORTEC CORPORATION
Environmentally Safe VpCI®/MCI® Technologies

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 92%

EcoSonic® HP Permanent ESD Film

DESCRIPTION

EcoSonic® HP Permanent ESD is a high-performance, USDA-certified biobased packaging film with permanent electrostatic dissipative (ESD) protection. By introducing ESD properties into one of Cortec®'s most popular biobased resins, EcoSonic® HP Permanent ESD Film offers a renewably sourced, circular-economy alternative to conventional polyethylene for any static-sensitive application.

Transparent, strong, and made from 92% USDA-certified biobased content, EcoSonic® HP Permanent ESD offers dissipative properties that last the lifetime of the film, ensuring long-term protection for electronics, circuits, panels, telecommunications equipment, PCB components, and electrical enclosures, all in a renewable alternative to plastic.

FEATURES

- ESD properties conforming to ANSI/ESD STM 11.11 and MIL-STD-3010
- Permanent ESD agent immediately protects against static buildup, lasting throughout the lifetime of the film
- Transparent protection
- ESD properties are independent of humidity conditions
- USDA-certified biobased packaging film, reducing reliance on petroleum products
- Free of any OSHA, NTP, SARA, or Prop 65 components
- Ideal for protecting integrated circuits, printed circuit boards, PCB components, telecommunications equipment, electronics panels, and electrical enclosures
- Shelf stable and ready to deploy

APPLICATION

EcoSonic® HP Permanent ESD Film is ideal for protecting integrated circuits, printed circuit boards, PCB components, telecommunications equipment, electronics panels, and electrical enclosures, all while reducing dependence on conventional polyethylene ESD films.

PACKAGING & STORAGE

EcoSonic® HP Permanent ESD Film is available in thicknesses of 2–6 mils (50–150 µm), in custom-sized rolls and bags (with heat-sealable or zipper closures). Contact Cortec® Customer Service for pricing and availability.

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

EcoSonic® HP Permanent ESD Film

TYPICAL PROPERTIES*

Electrostatic Properties		
Property	**Test Method**	**Values**
Surface Resistance	ANS/ESD STM11.11	$1x10^5$ – $1x10^{10}$ Ohms
Static Decay	MIL-STD 3010 Method 4046	<2.0 seconds at 10% cutoff threshold

Mechanical Properties				
Property	**Test Method**		**Units**	**Values**
Caliper		ASTM D6988	mil (µm)	2.00 (50.8)
Breaking Factor	MD	ASTM D882-02	lbs/in (N/m)	9.97 (1,746)
	CD			8.73 (1,529)
Tensile Strength at Break	MD	ASTM D882-02	psi (kPa)	6,013 (41,460)
	CD			4,984 (34,360)
Elongation at Break	MD	ASTM D882-02	%	282.66
	CD			271.20
Yield Strength	MD	ASTM D882-02	psi (kPa)	3,903.66 (26,910)
	CD			3,024.19 (20,850)
Dart Drop Impact Resistance		ASTM D1709-04, TM A	lb (g)	1.14 (516.70)
Puncture Resistance	Outside	MIL-STD-3010, TM 2065	lbf (gf)	5.07 (2,230)
	Inside			5.59 (2,536)
Tear Strength	MD	ASTM D1922-06A	lbf (gf)	0.83 (374.40)
	CD			0.11 (50.00)
Coefficient of Friction	Static	ASTM D1894		0.03
	Kinetic			0.29

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

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ISO 9001
ISO 14001

LIMITED WARRANTY

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