ESD-SAFE LAMINATING FILM · WORKSTATION HARDWARE

I.C.® STATIC DISSIPATIVE LAMINATING SHEETS

3 mil PET/EVA · Works with standard office laminators · Packs of 100

PRODUCT DESCRIPTION

I.C. ESD Safe Laminating Sheets are designed to safely laminate signs, data sheets or instructions in any cleanroom or warehouse environment. Surface resistance of <1 x 10^9 Ω (per Dou Yee testing) and an average static decay rate of 0.5 seconds at 12% RH provide long-lasting protection, while a multi-layer, heat-sealed, static-dissipating coating neutralizes charge to help control static in the workplace. The heat-sealable, flexible multi-layer laminate is constructed from pre-trimmed polyester and permanent antistatic EVA: laminate documents, work instructions, calibration certificates or ESD signs between the sheets for use in ESD-sensitive work areas.

DIRECTIONS FOR USE

Works with any standard document laminating system found at office supply stores. Place a non-ESD document between the 10^9 ohms/sq sheets, then laminate them together through a heat sealer (250–375ºF, 0.5–3.5 sec, 30–70 PSI). The result is a laminated static dissipative document holder for use in ESD-sensitive areas.

USES

- For use in a cleanroom or sterile environment
- For use in designating workspaces
- For use in preserving signs or documents

APPLICATIONS

Electronics Manufacturing, Cleanrooms, Static-Sensitive Environments.

FEATURES & BENEFITS

2-IN-1 FORMULA	Both static resistant and static dissipating material
HYBRID PROTECTION	Dissipates existing charge as well as shielding from introduced charges
INSIDE-OUT DEFENSE	Static dissipative coating dissipates charge from both inner and outer surfaces
BRILLIANT CLARITY	Draws out vivid colors and bold contrast from laminated documents
TOUGH MATERIAL	3 mil laminate for durability while retaining document flexibility
SPLASH-PROOF	Water slides off the non-porous material; easy to wipe and clean
CUT AND TRIM MATERIAL	Seal and cut multiple signs or sheets from the original larger sheet
OFFICE COMPATIBILITY	Fully compatible with office laminators
EASY TO HANG	Binds well to most adhesives and tape
ICONIC ESD	Embossed ESD logo, easily identified among regular laminating sheets
RECYCLABLE	Fully recyclable material

FREE OF

- BPA-FREE
- BISPHENOL-FREE
- PHTHALATE-FREE
- PVC-FREE
- PBDE-FREE
- HEAT SEALABLE

WORKPLACE SPECIFICATIONS

- Supports an ANSI/ESD S20.20 program
- Exceeds MIL-B-81705 & NFPA-56A (electrostatic decay per Federal Test Standard 101, method 4046)
- Tested to ESD ADV 11.21: dissipative surface resistance between 1 x 10^4 and < 1 x 10^{11}
- Meets EIA 625 triboelectric charge standards
- Helps meet ANSI/ESD S4.1 (worksurfaces – resistance measurements)
- DOD-HDBK-263 military spec compliant

PHYSICAL PROPERTIES

THICKNESS	80 micron
GRAMMAGE	95 g/m^2
ELONGATION	MD 161%, TD 120%
CONTENTS	PET 95% · EVA 5%

R&R LOTION USA

I.C.® STATIC DISSIPATIVE LAMINATING SHEETS

MULTI-LAYERED CONSTRUCTION

LAYER 1 (OUTER)	Static dissipative polyethylene terephthalate (PET)
LAYER 2 (INNER)	Ethylene-vinyl acetate (EVA)

HEAT SEAL CONDITIONS

TEMPERATURE	250–375°F
TIME	0.5–3.5 sec.
PRESSURE	30–70 PSI

HEAT TOLERANCE & EFFICACY TESTING

DESCRIPTION	TEST METHOD	RESULT
PRE-LAMINATION EFFICACY (PER DOU YEE TESTING)		
Outer surface resistance	ANSI/ESD STM 11.11	<1 x 10^9 ohms
Volume resistance	ANSI/ESD STM 11.12	<1 x 10^{11} ohms
POST-LAMINATION EFFICACY (PER DOU YEE TESTING)		
Outer surface resistance	ANSI/ESD STM 11.11	<1 x 10^9 ohms
Volume resistance	ANSI/ESD STM 11.12	<1 x 10^{11} ohms

OUTER SURFACE RESISTIVITY	< 10^9 ohms/sq (2006 TDS)
STATIC DECAY (1000V TO 0V)	< 2 seconds (2006 TDS)
SURFACE RESISTANCE	<1 x 10^9 Ω per Dou Yee testing (ANSI/ESD STM11.11, before and after laminating); average static decay 0.5 sec at 12% RH

Values were developed from random samples taken from production material and are believed to be typical; actual values may vary somewhat.

QUICK CHEMICAL REGULATORY REFERENCES

PROP 65	No known substances
TSCA	No known substances
SARA	No known substances
REACH	No known substances
ROHS	No known substances

SIZES & PART NUMBERS

PART NO.	SIZE	SHEETS / PACK	UPC
SD-SHEETS	8½ x 11 in. (Letter) sheets	100	666080849979
SD-SHEETS-02	12¼ x 17 in. sheets	100	666080849986

REGULATORY

This ESD product is supplied by Dou Yee and QA-checked by R&R Lotion, and labeled in compliance with Federal Regulation and current Good Manufacturing Practices. R&R Lotion is an FDA and EPA registered and audited facility.

FDA EST. ID	3004167955
EPA FACILITY	91651-AZ-001
FDA DRUG CODE PREFIX	59555

SAFETY DATA SHEETS

For safety, environmental, handling, first aid and disposal information, refer to the Safety Data Sheet (ESD Laminating Sheet) in the SDS library at **rrlotion.com/msds/**

QUALITY ASSURANCE

Supply. The laminating sheets are supplied by Dou Yee and QA-checked by R&R Lotion.

Facility standards. R&R Lotion facilities follow Current Good Manufacturing Practice (cGMP) and/or Cosmetic GMP requirements.

Material standards. Incoming raw materials must undergo quality inspection and are efficacy tested prior to being used for manufacturing.

Equipment standards. All equipment and tools utilized are cleaned and sanitized both before and after use once verified by QA using sterility testing equipment.

Formula testing. Formulas developed by R&R Lotion undergo a series of tests and approvals to verify stability, product efficacy and packaging continuity.

Finished product testing. Every batch must go through physical testing prior to being approved for distribution, including in-house testing of appearance, color, odor and density, followed by third-party trace metals testing.

Product traceability. The collection and annual review of all raw materials, finished goods, process controls and formulas allows for consistent control and correction in good manufacturing and documentation procedures.

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