

PROTEKTIVE PAK

A Leading Manufacturer of ESD Rigid Packaging and Shipping Products



Made in the
United States of America





NEW!

Endura-Tek™ Material Features & Benefits

- Constructed from extruded honey-comb structure of high impact polypropylene material
- Superior strength and durability
- Conductive $< 1 \times 10^4$ ohms material provides a reliable path-to-ground
- Printed with ESD Protective Symbol as required by ANSI/ESD S541
- Meets ANSI/ESD S20.20 and Packaging Standard ANSI/ESD S541
- Chemical and moisture resistant. Ideal for use in areas where corrugated and/or paper products cannot be used
- Reusable, ensuring best value
- Made in the United States of America

Watch Our Video

See why Protektive Pak's Endura-Tek™ material is the superior choice for ESD packaging solutions. (Scan the QR Code)



Storage Containers

Provides ESD and physical protection for ESD sensitive components; with lid in place for shipping or storing ESD sensitive items outside an ESD protected area.

**Lids are sold separately*

NEW!



Endura-Tek™: Extruded Honeycomb structure offers unmatched durability compared to fluted material



I-Fluted Material

Stacking Tek-Trays

Durable trays that provide effective ESD protection, storage, and transportation for components, assemblies, and circuit boards. Trays stack, improving productivity and saving valuable space. Yellow wire frame helps provide visual identification.

NEW!



Open Bin Boxes

Economical, and efficient method of storing static sensitive electronic devices.

NEW!



NEW PROTEKTIVE PAK PRODUCT



Impregnated vs Coated Material

Independent ESD Tests Prove Protektive Pak Impregnated Corrugated Material is Superior. Proven...

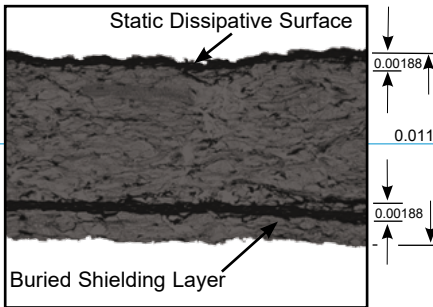
- Protektive Pak impregnated corrugated material has a buried shielding layer
- Protektive Pak impregnated corrugated material equals or exceeds the discharge shielding capabilities of a coated box
- Protektive Pak impregnated corrugated material has discharge shielding capabilities equal to a metal-out shielding bag
- Protektive Pak Dissipative Corrugated Material meets the ANSI/ESD S541 recommendation, avoiding rapid discharge when contacting ESD sensitive items - **conductive boxes DO NOT!**

See Test Report on our homepage at ProtektivePak.com

Superiority of Protektive Pak Impregnated Corrugated* vs. Coated Material

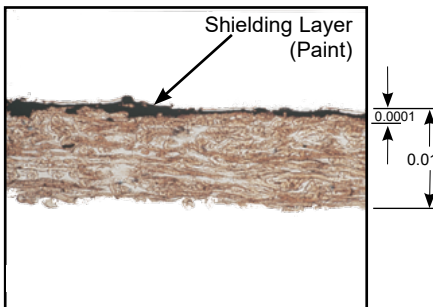
**Meets ANSI/ESD S20.20 and Packaging standard ANSI/ESD S541*

Protektive Pak

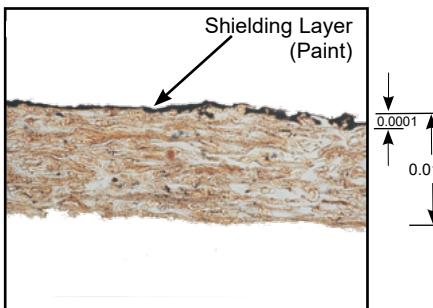


Microscopic cross section of Protektive Pak's impregnated corrugated

Other Coated Material



Microscopic cross section of carbon coated linerboard



Microscopic cross section of graphite printed linerboard

All microscopic photos are approximately the same scale.

	Impregnated	vs	Coated Material
1	CONSISTENT QUALITY Manufactured by one paper mill with computerized controls, resulting in consistent high quality.		Manufactured without computer controls and applied at various geographical locations, resulting in quality variations.
2	STATE-OF-THE-ART TECHNOLOGY Carbon is added during the paper making process. The paper is a 6 layer process. The top surface is static dissipative, measuring 10^6 to 10^8 ohms. The conductive layer is in the 5th layer from the surface measuring $<10^4$ ohms.		Material is coated or printed with a carbon loaded black ink which is then coated with a clean sealer to help coating stay on. Shielding layer is very close to surface and high carbon content can bleed through. Result is poor and inconsistent static dissipative effectiveness.
3	LOW SULFUR CONTENT Manufactured from 100% recycled paper with consistently low sulfur content.		Manufactured from either recycled or virgin paper or a combination of both. Sulfur content may be low or high which can cause corrosion to leads and circuits.
4	GREATER DURABILITY 1,000 Times Thicker. Abrasion tests have shown no loss in particles at 100 cycles, only 1% loss for 200 cycles, and 60% loss for 500 cycles.		Tests have shown a 50% loss in particles in only 10 cycles, and a 100% loss in only 100 cycles.
5	SLOWS RAPID DISCHARGE Burying the conductive layer under a dissipative surface reduces the potential for a rapid discharge when contacted by a charged device.		A very conductive surface that may pose a charged device model (CDM) ESD danger to components stored in open bin boxes, in-plant handlers, shippers, totes, nesting trays, etc.
6	BETTER SHIELDING EFFECTIVENESS Shielding effectiveness is equal to or greater than coated conductive materials.		Some coated products shield poorly due to inconsistent application procedures by some manufacturers.
7	BETTER VALUE More durable structure, 1,000 times thicker, which consistently shields your product from ESD, is also safer and better for the environment.		Simple structure which can lack consistency of ESD shielding, durability, and safety.

IMPREGNATED CORRUGATED



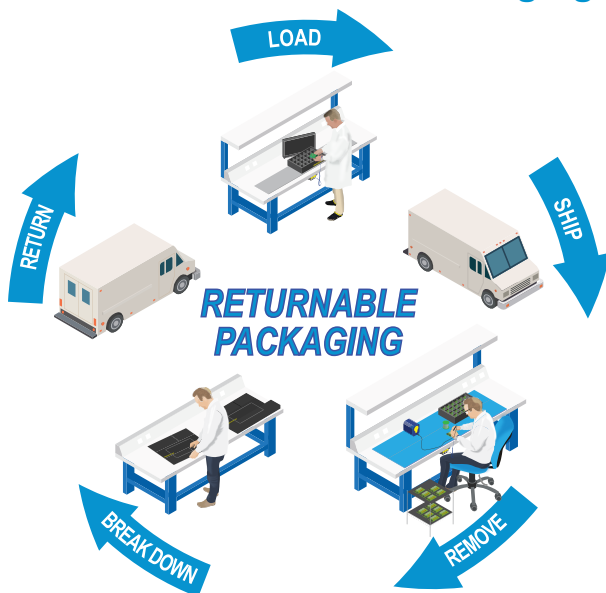
In-Plant Handlers

Ideal for storing and transporting static sensitive components and assemblies. Over 200 cell configurations available!



In-Plant Handlers available with optional steel reinforcing wire frame for additional strength. ESD handles and permanently static dissipative bottom foam pad for cushioning also available.

Perfect for Returnable Packaging!



Find the optimal size In-Plant Handler you need

TEK-SEARCH program available on our website: ProtectivePak.com

TEK-SEARCH simplifies the process of inputting your board dimensions, just enter the size of your circuit board (length x width x thickness) and you will be provided with a list of the most efficient In-Plant Handlers.

Stacking Tek-Trays

Durable trays that provide effective ESD protection, storage, and transportation for components, assemblies, and circuit boards. Trays stack, improving productivity and saving valuable space. Plastic corner trays provide durability. Yellow wire frame helps provide visual identification. Partition Set and Drop-In Lid available for select sizes.

FEATURED PRODUCT



Stacking Mini Tek-Trays are compact and save valuable work space!





Corrugated Products

Circuit Board Shippers

Provides both ESD and physical protection. Convoluted foam secures, minimizes movement, and reduces stress from physical shock.

Available with pink or black convoluted foam.



Small Component Shippers

Efficient method of shipping or storing ESD sensitive items. Many sizes available.



Reel Storage Containers

Economical method of storing reels. Partitions are easily removed to accommodate wider reels. Available with 5 or 15 slots. For use with 7", 13" or 15" reels. Labels included.



Trash Receptacles

ESD safe trash receptacles to replace high charging plastic trash receptacles. Static dissipative liners are available separately.



ESD Safe Trash Liners

Black static dissipative polyethylene trash receptacle liners are an ESD safe alternative to conventional high charging trash liners. The dissipative liners reduce static generation to less than 250 volts. Material thickness 2.0 mil. Available in two sizes.





Pro Mat™

Ideal for lining shelves and transportation carts or as a temporary workstation mat. Heat and chemical resistant. Includes two 10 mm (3/8") male or female grounding snaps. Multiple sizes are available.



Open & Closed Bin Boxes

Economical, and efficient method of storing static sensitive electronic devices.



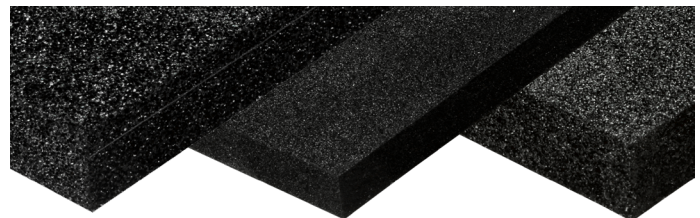
Conductive Hinged Boxes with Foam

Provides storage and handling of ESD sensitive items. Includes conductive foam insert(s) which provide protection from vibration and shock.



Conductive and Dissipative Foam

High quality black, crosslink polyethylene foam. Non-contaminating, non-corrosive and non-sloughing. Easy to adapt for custom uses by die cutting, laminating, water jet cutting, etc.



Lead Insertion
Conductive

Cushion Grade
Conductive

Cushion Grade
Dissipative

Anti-Static Tape

- Wescorp ESD Cellulose
- Wescorp ESD Conductive Shielding Grid
- Wescorp High Temp Masking
- Wescorp ESD High Temp Polyimide



Available with plastic or paper core.



Velostat® Hinged Containers

Ideal for static-safe storage, kitting, and in-process handling of static-sensitive assemblies and devices.



Velostat® Single Card Carriers

Protects individual printed circuit boards from static and physical damage during storage and transport.



Velostat® Drum Liners

The drum liners are constructed from a single layer of carbon loaded polyethylene. Material thickness is 4.0 mil. Available in 2 sizes



In Use

Velostat® Round Containers

Ideal for static-safe storage, kitting, and in-process handling of static-sensitive assemblies and devices. Velostat® Round Containers are chemical resistant.



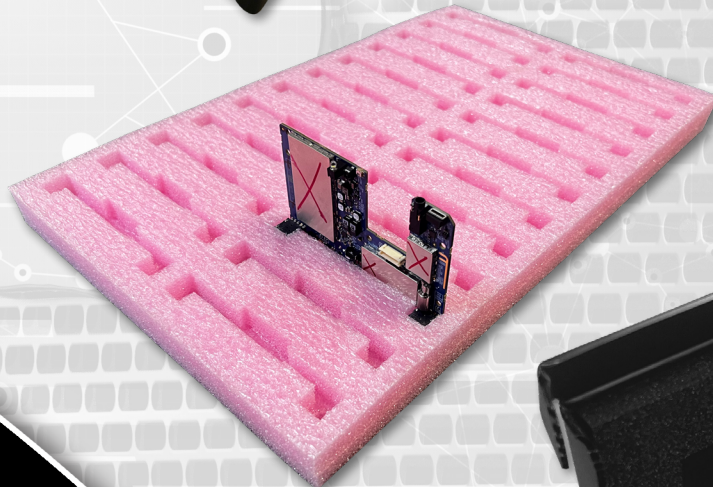
Yes! We do Customs.

Protektive Pak offers hundreds of standard sizes and styles of rigid ESD packaging solutions. While these solve most material handling and storage requirements, sometimes a custom product is needed.

Protektive Pak offers a combination of experience, quality, utility and design to create and provide the best solution for your requirements.

Materials:

- Dissipative Impregnated Corrugated
- Conductive Endura-Tek™
- ESD Foams



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DESCO INDUSTRIES INC

Employee Owned

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