

Features

- Provides ESD and physical protection for ESD sensitive components; with lid in place, shielding creates "Faraday Cage" restricting electrostatic charges to exterior to ship or store ESD sensitive items outside an ESD protected area
- Available with optional lid, steel reinforcing frame for additional strength and durability, ESD handles, and permanently static dissipative bottom foam pad for cushioning
- Impregnated corrugated material; greater durability than coated or printed material
- Constructed with double sides, double (boxes under 6" deep) or triple (boxes over 6" deep) ends, and single (boxes under 6" deep) or double (boxes over 6" deep) thickness bottom for greater durability
- Static dissipative surface of $10^7 - 10^9$ ohms - minimizing the potential of rapid discharge or sparking
- Buried shielding layer minimizing the potential of sloughing and rub-off contamination
- Made from 100% recycled material, and is 100% recyclable
- No tooling cost
- Easy assembly without the need for tape, glue, or staples
- Reusable, ensuring low cost

SPECIFICATIONS

Properties	Typical Values
Electrostatic Decay	0.01 seconds at 72°F and 11.8% R.H.
Surface Resistivity	$10^7 - 10^8$ ohms/sq. after 11 days at 68°F and 12% R.H. for surface. $10^3 - 10^4$ ohms/sq. for buried shielding layer
Surface Resistivity, Low R.H. Cut-off	4% R.H.
High-Voltage Discharge Resistance	Failure rate 0/5 (no oxide damage in five consecutive tests)
Static Shielding	99.9% attenuation at 10kV; 99.6% attenuation at 30kV
Charged Device Model (CDM) Safety	RTG $>10^7$ ohms at 86% R.H. or less
Current-Carrying Hazard	10^3 mA at 110V; 10^3 mA at 220V
Corrosivity	Contains 1-3 ppm reducible sulfur
Antistat Transfer	No transfer
Water & Isopropyl Alcohol Extraction Tests for Antistat Permanence	Surface resistivity $10^8 - 10^9$ ohms/square at 74°F and 36% R.H.
Sloughing Test	Negligible surface damage at 10 cycles and <5% of surface damage at 200 cycles in Taber Abrasion Test. No conductive particles abraded from surface
Recyclability	Complete recyclability of package
Biodegradability	Biodegradation in or on moist soil
Volume Conductivity	Conductivity from wall to wall as well as across surface to assure permanence of the antistatic property
Shelf Life	Indefinite

Test Procedures/Method

- FED-STD-101, Method 4046
- ASTM D257
Rockwell International Test Report of December 20, 1991
Rockwell International Test Report of December 20, 1991
EIA 541, appendix E, capacitive probe test
Rockwell International Test Report of December 20, 1991
ESD from A to Z
FED-STD-101, Method 3005 for reducible sulfur
Rockwell International Test Report of January 8, 1992
Rockwell International Test Report of January 8, 1992
- ASTM D4060 at 70 rpm with CS-17 abrasive-coated wheels and 1000 grams load
Rockwell International Test Report of January 8, 1992
Rockwell International Test Report of January 8, 1992
- Rockwell International Test Report of January 8, 1992

See reverse side for available sizes.



Made in America

STORAGE CONTAINERS

PROTEKTIVE PAK 13520 MONTE VISTA AVENUE, CHINO, CA 91710 PHONE (909) 627-2578, FAX (909) 363-7331 www.protektivepak.com	DRAWING NUMBER 37500	DATE: 7/05
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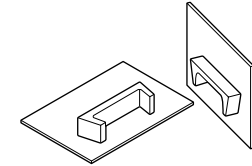
PROTEKTIVE PAK

Item No.	REF#	Box Size I.D. - L x W x D	Handles	Lid	Wire	Foam
37508	411-BX	16-7/8 x 10 x 3-1/2	N/A	37550	N/A	37451
37501	401-BX	16-7/8 x 10 x 5-3/8	N/A	37550	N/A	37451
37509	422-BX	17 x 9-7/8 x 2-1/2	N/A	37550	N/A	37451
37500	400-BX	17 x 9-7/8 x 7-1/4	37450	37550	N/A	37451
37502	402-BX	17 x 9-7/8 x 11-5/8	37450	37550	N/A	37451
37511	436-BX	17 x 13 x 6-3/4	37450	37551	37456	37452
37512	438-BX	17 x 13 x 8-3/4	37450	37551	37456	37452
37513	439-BX	17 x 13 x 10-3/4	37450	37551	37456	37452
37503	403-BX	17 x 13 x 12-5/8	37450	37551	37456	37452
37510•	434-BX	17 x 13 x 14-3/4	37450	37551	37456	37452
37520•	456-BX	18-3/8 x 12-3/8 x 6-3/4	37450	37553	37458	37454
37522•	458-BX	18-3/8 x 12-3/8 x 8-3/4	37450	37553	37458	37454
37523•	459-BX	18-3/8 x 12-3/8 x 10-3/4	37450	37553	37458	37454
37519•	455-BX	18-3/8 x 12-3/8 x 14-3/4	37450	37553	37458	37454
37518	452-BX	18-3/8 x 12-3/8 x 12-3/4	37450	37553	37458	37454
37521	457-BX	18-3/8 x 12-3/8 x 17-1/8	37450	37553	37458	37454
37505	405-BX	18-1/2 x 12-3/8 x 18-3/4	37450	37553	37458	37454
37506	406-BX	18-5/8 x 15 x 5-7/8	37450	37554	37459	37455
37527	468-BX	18-5/8 x 15 x 8	37450	37554	37459	37455
37524	460-BX	18-5/8 x 15 x 10	37450	37554	37459	37455
37525	462-BX	18-5/8 x 15 x 12	37450	37554	37459	37455
37526	464-BX	18-5/8 x 15 x 14	37450	37554	37459	37455
37516	446-BX	22-7/8 x 12-7/8 x 6	37450	37552	37457	37453
37517	448-BX	22-7/8 x 12-7/8 x 8	37450	37552	37457	37453
37514	440-BX	22-7/8 x 12-7/8 x 10	37450	37552	37457	37453
37504	404-BX	22-7/8 x 12-7/8 x 12-5/8	37450	37552	37457	37453
37515	445-BX	22-7/8 x 12-7/8 x 15-1/4	37450	37552	37457	37453
37507	408-BX	22-7/8 x 12-7/8 x 18-1/4	37450	37552	37457	37453

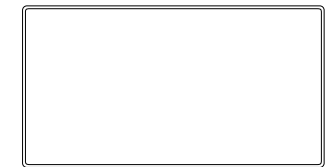
• These items made to order

ACCESSORIES

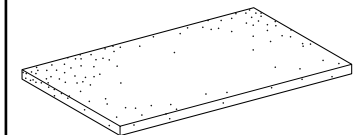
- ESD Handles
- Wire Frames
- Foam Pads



Conductive Plastic Handles



Steel wire perimeter reinforcing frame for extra strength and durability



Permanently static dissipative crosslink bottom foam to cushion circuit boards

Item	Description	Size
37450	ESD Handles	1" x 4"
37451	Bottom Foam	1/4" x 9-3/4" x 16-3/4"
37453	Bottom Foam	1/4" x 12-1/4" x 22-5/8"
37454	Bottom Foam	1/4" x 12-1/2" x 18-1/2"
37452	Bottom Foam	1/4" x 12-5/8" x 16-5/8"
37455	Bottom Foam	1/4" x 14-3/4" x 18-3/8"
37458	Wire Frame	1/4" x 12-1/2" x 18-11/16"
37457	Wire Frame	1/4" x 12-3/4" x 23-1/8"
37456	Wire Frame	1/4" x 13-1/4" x 17-1/4"
37459	Wire Frame	1/4" x 15-1/8" x 18-13/16"