



## Features

- Economical and efficient way to store and transport DIP Tubes and Rails
- Each cell has an extender tab which may be labeled to identify the contents
- Tube Handler may be rotated on shelves to view the extender tab either vertically or horizontally
- Cell identification labels included
- Shipped knocked-down; easy to assemble
- Made in America

### RoHS Compliance Statement

None of the following materials are intentionally added in manufacturing this product: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) as outlined in the Directive 2002/95/EC Article 4.1. See Protective Pak Inc. letter on-line at [ProtectivePak.com](http://ProtectivePak.com).

**See reverse side for available sizes.**



Made in America

## SPECIFICATIONS

### Properties

**Electrostatic Decay**  
**Surface Resistance**

### Typical Values

0.01 seconds at 72°F and 11.8% R.H.  
10E6 - 10E8 ohms/sq. after 11 days at 68°F and 12% R.H. for surface. 10E3 - 10E4 ohms/sq. for buried shielding layer

**Surface Resistance, 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 >10E7 ohms at 86% R.H. or less

**Current-Carrying Hazard**

10E3 mA at 110V; 10E3 mA at 220V

**Corrosivity**

Contains 1-3 ppm reducible sulfur

**Antistat Transfer**

No transfer

**Water & Isopropyl Alcohol Extraction**

Surface resistance 10E8 - 10E9 ohms/square at 74°F and 36% R.H.

**Tests for Antistat Permanence**

**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

## TUBE HANDLERS

**PROTEKTIVE PAK**  
**BURIED SHIELDING LAYER**

PROTEKTIVE PAK  
13520 MONTE VISTA AVENUE, CHINO, CA 91710  
PHONE (909) 627-2578, FAX (909) 363-7331  
[ProtectivePak.com](http://ProtectivePak.com)

**DRAWING NUMBER**  
37790

**DATE:**  
September  
2007

<b>Item No.</b>	<b>O.D. L x W x D</b>	<b>Cell I.D. L x W x D</b>	<b># of Cells</b>
<b>37790</b>	12 x 6 x 20	1-7/8 x 1-7/8 x 20	10
<b>37791</b>	12 x 6 x 24	1-7/8 x 1-7/8 x 24	10
<b>37792</b>	12 x 12 x 20	1-7/8 x 1-7/8 x 20	25
<b>37793</b>	12 x 12 x 24	1-7/8 x 1-7/8 x 24	25
<b>37794</b>	24 x 12 x 20	1-7/8 x 1-7/8 x 20	50
<b>37795</b>	24 x 12 x 24	1-7/8 x 1-7/8 x 24	50