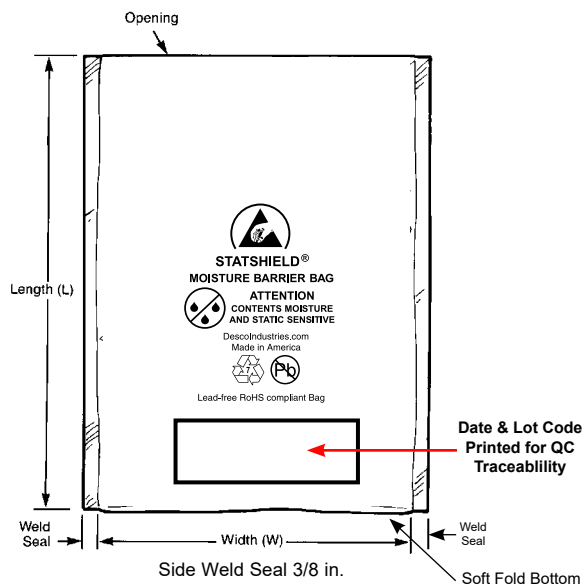
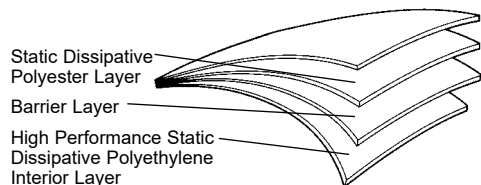




# Protektive Shield™ ESD Shielding Moisture Barrier Bag



\*\* Bags are printed (hot stamp or thermal) with an ESD protective symbol and a lot code for traceability. \*\*



**NOTE:** The complete dry package concept of packaging for electronics requires three elements:

[Statshield® Moisture Barrier Bags](#) - To Protect

[Dessicant](#) - To Absorb Moisture

[Humidity Indicator Card](#) - To Monitor Performance

For detailed instructions see Technical Bulletin [TB-2031](#) - Moisture Barrier Bags Application Instructions.

Statshield® bags are packaged 100 per package in an oversized shielding bag. See [Shielding Bag Storage](#) at [TB-7057](#).

## Specifications:

**Standard Document**  
ANSI/ESD S541 (ANSI/ESD S20.20)  
ANSI/ESD S11.4

### Electrical Properties

Surface Resistance  
(both exterior and interior)  
Discharge Shielding  
Static Shielding  
EMI Attenuation

### Typical Values

$1 \times 10^4$  to  $< 1 \times 10^{11}$  ohms  
<10 nJ  
20 volts  
45 db

**Meets Requirements of:**  
ESD Protective Packaging  
Level 1 Technical Requirements

### Test Procedures/Method

ANSI/ESD STM11.11  
ANSI/ESD STM11.31  
EIA 541  
ANSI/ESD S541

### Physical Properties

Film Thickness  
Tensile Strength  
Puncture Resistance  
Seal Strength  
MVTR  
Silicone  
Marking Adhesion

### Typical Values

Nominal .0040" (.1016mm)  $\pm 10\%$   
13000 PSI  
>25 PSI (lbs)  
>12 PSI  
 $\leq 0.0003\text{g}/100\text{sq.in}/24\text{hours}$   
Not detected  
Pass

### Test Procedures/Method

MIL-STD-3010, 1003  
ASTM D882  
MIL-STD-3010, 2065  
ASTM D882  
ASTM F1249  
ASTM E168  
IPC-TM-650 2.4.1

### Chemical Properties

Corrosion

No effect on aluminum, copper, silver, Sn-Pb coated foil, stainless steel, low carbon steel

### ANSI/ESD S541 Section 6.2 Outside an EPA

"Transportation of sensitive products outside of an EPA shall require packaging that provides:

1. Low charge generation
2. Dissipative or conductive materials for intimate contact
3. A structure that provides electrostatic discharge shielding."

### RoHS, REACH and Conflict Minerals Statement

See the Desco Industries RoHS, REACH, and Conflict Minerals Statement:  
[Regulatory\\_Statement\\_Statshield\\_Bags.pdf](#)

See Protektive Pak's Limited Warranty:  
[ProtektivePak.com/Limited-Warranty](#)

Statshield® and Statfree® are Registered Trademarks of Desco Industries Inc.  
See Bag Selection Chart Click [HERE](#).

Specifications and procedures subject to change without notice.



Made in the  
United States of America  
with Globally Sourced  
Materials

## PROTEKTIVE SHIELD™ ESD SHIELDING MOISTURE BARRIER BAG, 4 mil

# PROTEKTIVE PAK

**PROTEKTIVE PAK**  
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**DRAWING NUMBER**  
48950

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