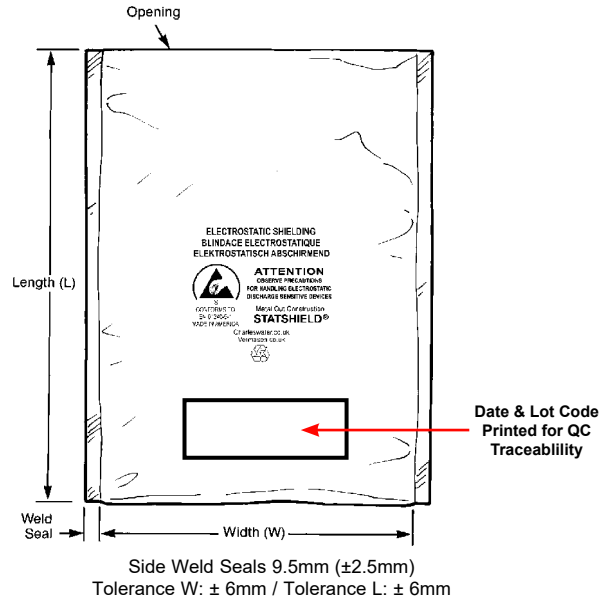


STATSHIELD® METAL-OUT SERIES



Meets EN 61340-5-1 and Packaging standard EN 61340-5-3 tested per IEC 61340-2-3 and ANSI/ESD STM11.31



High Performance Static Dissipative Abrasion Resistant Coating

Aluminum Shielding Layer

Low Charging Static Dissipative Proprietary Polyester Layer

Low Charging Static Dissipative Proprietary Inner Polyethylene



Mixed Unsortable Plastic Scrap

Mixed unsortable plastic scrap shall contain assorted plastics of multiple grades that are co-extruded, bonded or laminated together which are unsortable into individual grades

Charleswater's bags are recyclable

Statshield® bags are packaged 100 per package in an oversized shielding bag. See [Statshield Bag Storage Information](#).

Specifications:

Electrical Properties

Surface Resistance:
Outer Surface
Inner Surface
Discharge Shielding
Charge Generation

Typical Values

1×10^4 to $< 1 \times 10^8$ ohms
 1×10^4 to $< 1 \times 10^{11}$ ohms
<20 nJ
Teflon: -0.03 nC/in²
Quartz: +0.10 nC/in²
<30 volts

Test Procedures/Method

IEC 61340-2-3
IEC 61340-2-3
ANSI/ESD STM11.31
Modified Incline Plane
Modified Incline Plane
EIA 541

Physical Properties:

Film Thickness
Width (Inside Dimensions)
Length (Inside Dimensions)
Light Transmission
Tensile
Puncture Resistance
Heat Seal
Cleanliness
Marking Adhesion

Nominal 0.0762mm ±10%
Nominal -0" / + 3.2mm
Nominal ± 3.2mm
40% (Tobias)
9000 PSI
>10 lbs
>10 lbs/in.
Silicone Not detected
Pass

MIL-STD-3010, 1003
ASTM D-1003
ASTM D882
MIL-STD-3010, 2065
375°F, 1/2 sec 60 psi
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
Yes

Polycarbonate Capability

Yes

Bag is free of amines, N-octanoic acid, silicones and heavy metals.

Packaging Standard EN 61340-5-3 clause 5.3 Outside an EPA

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

- dissipative or conductive materials for intimate contact;
- a structure that provides electrostatic discharge shielding"

NOTE 1: If electrostatic field shielding materials are used to provide discharge shielding, a material that provides a barrier to current flow should be used in combination with the electrostatic field shielding material.

NOTE 2: Dissipative materials are preferred for intimate packaging in situations where charged device model (CDM) damage is a concern."

RoHS 2, REACH and Conflict Minerals Statement

None of the RoHS 2 restricted materials, or REACH substances of very high concern as of 2015/12/17, or Conflict Minerals are intentionally added in manufacturing this product. Ref: European Directive 2011/65/EC Article 4.1. and Regulation (EC) No. 1907/2006/CE. See Desco Industries Inc. [Limited Warranty at Charleswater.co.uk](#)



Made in the United States of America*

Statshield® and Statfree® are Registered Trademarks of Desco Industries Inc. Click [HERE](#) for a complete bag selection chart.

Specifications and procedures subject to change without notice.

*Film made in the United States of America or Malaysia



Statshield™ Bag, Shielding, Metal-Out Construction

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Drawing Number
90300.E

DATE:
May
2016