

# Total tech

## ESD & Clean Room Products

Metal-In static shielding bags made out of polyester/polyethylene films for packaging ESD sensitive devices. Heat sealable, those bags are available with or without zipper.

### Film construction :

<b>Dissipative coating</b>
<b>Polyester</b>
<b>Aluminium</b>
<b>Polyethylene</b>
<b>Dissipative coating</b>

### Standard compliance :

IEC 61340-5-1  
94/62/EC & 2002/95/EC (RoHS directives)  
MIL-B 81705 C Type III, class I

### Material and features :

Thickness : 76 $\mu$  (3 mil. Inch) +/- 10%  
Tensile strength : MD = 5000 psi / TD = 5500 psi (ASTM D-882-91, method A)  
Tear strength : MD > 2.0 lbs / TD > 2.8 lbs (ASTM D-1004-64 Notched)  
Puncture strength : > 12 lbs (FTMS 101C, Method 2065.1)  
MVTR : < 0.25 gram/100 in<sup>2</sup> / 24H  
Light transmission : 40% (+/-5%)  
Heat sealable : 250/375°F ; 0.5 to 3.5 sec. ; 30 to 70 psi

### Electrical properties :

Surface resistance : < 10e11 Ohm (both surface), IEC 61340-2-3  
Volume resistance : < 10e11 Ohm (both surface), IEC 61340-2-3  
Energy penetration : < 30 nJ  
Static shielding : Capacitive probe < 25V  
Static decay time : < 0.05 seconds

### Bag specifications :

Dimensions (for non zip bags) : from 76x76mm to 914x762mm  
Dimensions (for zipper bags) : from 50x76mm to 457x457mm  
All bags dimensions are internal dimensions. The 1<sup>st</sup> dimension is the opening, the 2<sup>nd</sup> is the height.  
Seal sizes :  $\leq$  6mm  
Printing : Standard with ESD requirements, approx 50x50mm, Yellow. Date code (YYMM).  
Shelf life : Permanent if the bag is not damaged

### Options :

Standard sizes available from stock, customized sizes available on request  
Customized printing on request.  
Also available in 50 $\mu$ .