

# PURESTAT ENGINEERED TECHNOLOGIES, INC.

## Metal-Shield/BAG

3.1 Metallized static shielding film is a four layer film consisting of a static dissipative coating outer layer, Buried polyester, Aluminum shield and a purestat PE inner layer.

### Physical Properties

<u>Physical Properties</u>	<u>Test Method</u>	<u>Specification</u>
Thickness	PST #001	3.1 mil
Yield	PST #002	9,000sq. In/lb
Tensile Strength	ASTM D 882	15 lbs/in
Puncture Resistance	FTMS 101C method 2065	>12 lbs.
Tear Initiation	ASTM D 1004-94A	> 2 lbs.
Mullen Burst	ASTM D 774	82 PSI
Seam Strength	ASTM D 882	>12 lbs/in
Haze	ASTM D 1003	4%
Optical Density		0.35-0.45
Transparency	ASTM D 1003	40%
Heat Seal		375 <sup>0</sup> F 0.5sec 60 PSI
Blocking		None

### Electrical Properties

<u>Electrical Properties</u>	<u>Test Method</u>	<u>Specification</u>
Surface Resistivity	ASTM D-257 @ 15% RH	PE < 10 <sup>12</sup> Ohms/sq PET < 10 <sup>12</sup> Ohms/sq
Surface Resistance	ANSI/ESD STM11.11	PE < 10 <sup>11</sup> Ohms PET < 10 <sup>11</sup> Ohms
Static Shielding	EOS/ESD S11.31	< 10 nJ
Electrostatic Decay	FTMS 101 method 4046	.01 sec.
Capacitance Prob	EIA-541	<10 volts difference
Metal Layer	ETS-8C3 at 15% RH	<100 Ohms

### Heat Sealing

Product is suitable for automatic bag-making machines:  
Temperature - 250<sup>0</sup>F - 375<sup>0</sup>F  
Pressure - 30 - 70 PSI  
Time: 0.5 - 3.5 seconds

### Sizes:

As specified by the customer.  
Also available in reclosable top.

**Applications** : For packaging of static sensitive electronic components without loss of visibility for identification.

### Chemical Properties:

<u>Chemical Properties:</u>	<u>Test Method</u>	<u>Specification</u>
Contact Corrosivity	FTMS 101C Method 3005 (sodium fluoride phosphate & sodium ions)	No visible signs after testing at deterioration.

The values shown above were developed from random samples taken from production material we believe to be typical for the product. However, actual values may vary somewhat from those depicted here and PST makes no warranty, expressed or implied, as to the suitability of these materials for any specific use. Customers should determine product suitability based upon their own initial criteria. Nothing herein is to be taken as a license to operate under or a recommendation to infringe upon any patent.

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