# ESD Moisture Barrier Bags
# 3.6 Mil Thickness

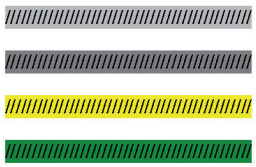
## Material Structure

1/ Static Dissipative Layer

2/ Aluminised Polyester Film

3/ 2.6 mil Polyolefin Ultra Seal

4/ Static Dissipative Layer



Contains no amines or n-octanoic acid, polycarbonate compatible.

This material is qualified to MIL-B81705 Rev C Type I class I qualified.

- Sealing: Impulse Heat Seal or Vacuum Seal
- Available in various sizes

## PHYSICAL PROPERTIES:

| | |
|---|---|
| Yield (per pound) | 7100 Square inches |
| Total Thickness | 3.6mils (92 microns) |
| Tensile Strength (ASTM D88-83 Method A) | MD:9,000psi TD:10,500psi |
| Tear Strength (ASTM D1004-66 Notched) | MD:4.7lbs TD:4.3lbs |
| Elongation (ASTM D882-83 Method A) | MD:98% TD:80% |
| Burst Strength (FTMS 101-C Method 2007 la) | 84psi |
| Puncture Strength (FTMS 101-C Method 2065.1) | >20psi |
| Heat Seal Strength (ASTM D 1876-72) Vertrod Sealer | >11lb/in width |
| Light Transmission (ASTM D1003-77) | <0.1% |
| MVTR (ASTM F-1249 @ 100F 100sq in/24hrs) | <.02gms 0.1gms nominal |
| Seam Strength (MilB81705 REV-C) before & after ageing | 160°F=No separation, 100°F=No separation, Room Temperature=No separation |
| Delamination (FTMS 101-C Method 3015) | No leakage, swelling, embrittlement |
| Water Resistance (FTMS 101-C Method 3028 procedure F) | No delamination |
| Resistance to Ageing (Mil-B 81705-C) | No delamination |
| OTR (ASTM D3985 100% Oxygen sq.in/24hrs) 77°F.0%:90% R.H. | 0.0005cc ,0.005cc |

## Electrical Properties

| | |
|---|---|
| EMI Sheilding (Mil81705-REV-C) | >40dB Between 1 & 10Ghz |
| Resistivity – Conductive Metal Layer (ASTM D-257) | ,2 Ohms/sq.in |
| Capacitative Probe Test (High Voltage Discharge)-EIA-Std | <8 Volts |
| 541/Appendix E-IKV | |
| Static Decay (FTMS 101C, Method 4046. 1,5000 to ) volts) | <0.05 seconds |
| Surface Resistivity (both surfaces) – (STM D-257 @ 12%RH) | $<10^{12}$ Ohms/sq. in avg. $10^{10}$ Ohms/sq.in |
| Charge Generation – nominal (Modified incline plane avg. nC/sq.in): | Teflon – 0.09<br>Quartz + 0.1 |