



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 Ia)	84psi
Puncture Strength (FTMS 101-C Method 2065.1)	>20psi
Heat Seal Strength (ASTM D 1876-72) Vertrad 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
Capacitive Probe Test (High Voltage Discharge)-EIA-Std 541/Appendix E-IKV	<8 Volts
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 Quartz + 0.1

