

## BT-MB2000 ESD Moisture Barrier Film / Bag(PET/AL/PE)

ESD Moisture Barrier Film / Bag made from polyester/aluminum/polyethylene films for packaging ESD sensitive devices this bags are available with or without zipper. This bag provides moisture barrier properties intended to protect moisture sensitive devices that require a higher protection from moisture. This bag also provides static control properties intended to protect electronic devices and assemblies from ESD.

### SPECIFICATIONS

Electrical Properties	Typical Values	Test Method
Surface Resistance		ANSI/ESD STM 11.11
Interior	<10E11ohms	
Exterio	<10E11 ohms	
Metal	100 ohms	
Static Shielding	<15 nJ	ANSI/ ESD
Static Decay	<0.03 seconds	STM11.31 EIA 541
Charge Generation	< 100 volts	** 15kV and 12% RH
<b>Physical Properties</b>		
Material Thickness:	4.0mils+/-10%	MIL-PRF-81705D
Puncture Strength	10.0 lbs	MIL -PRF-81705D
Seam Strength	No separation	
Heating sealing		
Conditions Temperature	300°F -400 °F 0.6	
Time	- 4.5seconds 30 –	
Pressure	70 psi >3,500 psi	ASTM D882
Tensile Strength	MD/TD	ASTM F-1249
Water vaporTransmission	<0.006grams/100 sq in/day	
(@100°F&90%RH)		
Visual inspection	No tears,holes,sctratches,etc.	
<b>Chemical Properties</b>		
Amines/Amides	Compliant to ROHS,REACH, Halogen free ETC requirement Not detected	FTIR
<b>Cleaning Performance</b>		
LPC	≤1200 particle /CM2	>0.5
DHS		
Phenonis (BHT,Ionol 2) and derivatives	≤ 530 ng /cm2	
Hydrocarbons and Others Ethyl Acetate	<1179	
Total	<0.5	
outgassing NVR	<1709	
Hexane/IPA	≤4.5ug/ cm2	
FTIR		
silicone	<5ng/cm2	
oil IC		
Single Anion	≤ 0.0 1ug/cm2 Nitrate ≤ 0.06 ug/cm2	
Total Anion	≤ 0.10 ug/cm2	
particle content	Talc: particles / CM2, Hard Particles: particles/cm2	



### Material Structure

BT-MB2000 ESD Moisture Barrier Film / Bag are made from industry-approved Static Dissipative Coating/PET/Alumunum Foil polyethylene layer/Static dissipative coating laminate

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