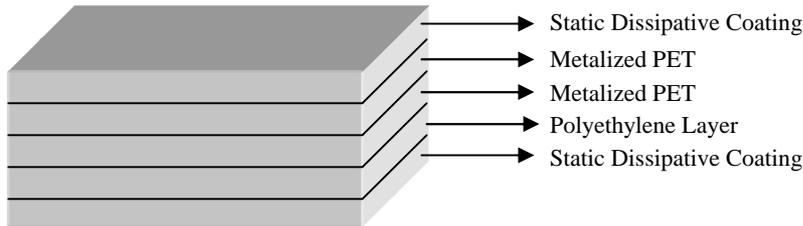


PRODUCT SPECIFICATION
DOCUMENT CONTROL NO.: DY3008-9700 REV. A
DY3008-9700 MOISTURE BARRIER MATERIAL (BAG)
PRODUCT : Moisture Barrier Film (Bag)

DESCRIPTION : Heat sealable, electrostatic protective, moisture protective multi-layer laminated material for ESD safe and moisture barrier packaging. The combination of polyester, Nylon, Aluminium foil and polyethylene makes it an extremely tough structure for transportation purpose and long-term dry-packed storage of sensitive devices. Its electrical and physical properties meet the requirements set forth in EIA-583, EIA-541, EIA-625, IPC/JEDEC J-STD-033 and MIL-PRF-81705 Type 1 standards.

CONSTRUCTION : (from the outermost to innermost layers)


Static Control



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Electronics / Dry Packaging



IC Mold Cleaning Compound



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Tapes & Reels



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PHYSICAL POPERTIES	TEST METHOD	TYPICAL VALUE
Total Thickness		7.0mils ± 10%
Tensile Strength	ASTM D-882-02	≥ 4,000 psi (MD) ≥ 5,000 psi (TD)
Puncture Resistance	FTMS 101C, Method 2065.1	≥ 28 lbs
Tear Strength	ASTM D-1004-94 Notched	≥ 5.0 lbs (MD) ≥ 6.0 lbs (TD)
Heat Seal (375F, 1/2sec.60PSI)	ASTM D-882-02	≥ 12 lbs/in.width
MVTR (100F, 100 in ² /24 hrs)	ASTM F-1249	≤ 0.002 gram

PRODUCT SPECIFICATION
DOCUMENT CONTROL NO.: DY3008-9700 REV. A
DY3008-9700 MOISTURE BARRIER MATERIAL (BAG)

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL VALUE
Surface Resistivity	ANSI ESD-STM11.11	< 10 ¹² Ω/sq. (Inner and Outer)
Static Decay (12% RH, 5000 to 0 Volts)	FTMS 101 Method 4046	< 0.05 sec
EMI Shielding	MIL-PRF-81705	30 to 35dB between 1 to 10GHz
Static Shielding – Capacitance Probe	EIA 541	< 10V
Static Shielding – Energy Penetration	ESD-STM-11.31 @ 12% R.H.	< 5 nJ



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HEAT SEAL CONDITIONS

: 250°F -375°F, 0.5-3.5 sec, 30-70 PSI.

CHEMICAL PROPERTIES	TEST METHOD	TYPICAL VALUE
Amines, Silicone and N-Octanoic Acids	FTIR	Non-detectable
Polycarbonate Compatibility	EIA-564	Pass
Contact Corrosivity	FTMS 101C Method 3005	Pass



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The values shown above were developed from random samples taken from production material. We believe them to be typical for the product. Dou Yee Enterprises 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 criteria and further qualification process.

Date: July 2004