

## PRODUCT SPECIFICATION

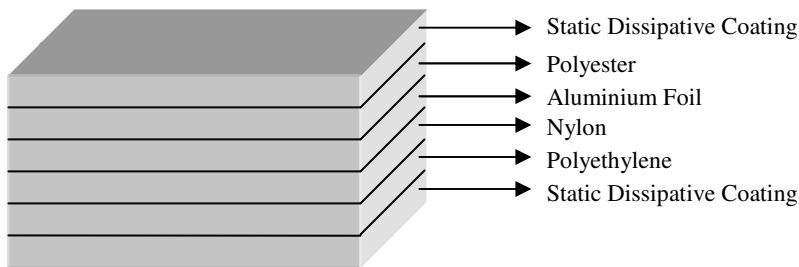
DOCUMENT CONTROL NO.: DY3008-803 REV. F

### DY3008-803 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



Cleanroom



Wafer Handling & Singulation



Electronics / Dry Packaging



IC Mold Cleaning Compound



MIM/ CIM



Tapes & Reels



Other Industrial Tools & Equipment

PHYSICAL POPERTIES	TEST METHOD	TYPICAL VALUE
Total Thickness		4.0mils +/- 10%
Tensile Strength	ASTM D-882-02	> 7,000psi (MD/TD)
Puncture Resistance	FTMS 101C, Method 2065.1	≥ 27 lbs
Tear Strength	ASTM D-1004-94 Notched	≥ 2.4 lbs (MD) ≥ 2.8 lbs (TD)
Heat Seal – 1” width (375F, 1/2sec.,60PSI)	ASTM D-882-02	≥ 20 lbs
MVTR (at 90% RH, /100in <sup>2</sup> -24hrs)	ASTM F-1249	≤ 0.0003 grams

## PRODUCT SPECIFICATION

DOCUMENT CONTROL NO.: DY3008-803 REV. E

### DY3008-803 MOISTURE BARRIER MATERIAL (BAG)

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL VALUE
Surface Resistivity	ANSI ESD-STM11.11	< 10 <sup>12</sup> Ω/sq. (Inner and Outer)
Static Decay (12% RH, 5000 to 0 Volts)	FTMS 101 Method 4046	< 0.2 sec
EMI Shielding	MIL-PRF-81705	30 to 35dB between 1 to 10GHz
Static Shielding	EIA 541	< 10V
Static Shielding	ESD-STM-11.31 @ 12% R.H.	< 10 nJ



Static Control



Cleanroom



Wafer Handling & Singulation



Electronics / Dry Packaging



IC Mold Cleaning Compound



MIM / CIM



Tapes & Reels



Other Industrial Tools & Equipment

#### 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

#### ROHS Compliance : YES

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: June 2008