

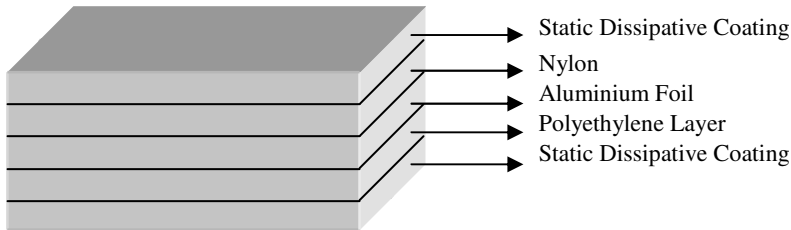
## PRODUCT SPECIFICATION DOCUMENT CONTROL NO.: DY3008-106 REV. E

### DY3008-106 Moisture Barrier Material

**PRODUCT** : Moisture Barrier Film (Bag)

**DESCRIPTION** : Heat sealable, electro static protective, moisture protective multi-layer laminated material for ESD safe and moisture barrier packaging. Its electrical and physical properties meet the requirements of EIA-583, EIA-541, EIA-625 and MIL-PRF-81705 Type 1 standards.

**CONSTRUCTION:** (from outer to inner layer in bag form)



Static Control



Cleanroom



Wafer Handling & Singulation



Electronics / Dry Packaging



IC Mold Cleaning Compound



MIM/ CIM



Tapes & Reels



Other Industrial Tools & Equipment

| PHYSICAL PROPERTIES                | TEST METHOD              | TYPICAL VALUE                        |
|------------------------------------|--------------------------|--------------------------------------|
| Total Thickness                    | ASTM D-374               | 6.0 mils $\pm$ 10%                   |
| Tensile Strength                   | ASTM D-882-91, Method A  | > 4,000 psi (MD)<br>> 4,300 psi (TD) |
| Tear Strength                      | ASTM D-1004-94 Notched   | > 4.0 lbs (MD)<br>> 4.0 lbs (TD)     |
| Puncture Strength                  | FTMS 101C, Method 2065.1 | $\geq$ 19 lbs                        |
| Heat Seal Strength                 | ASTM D-882-91            | $\geq$ 16 lbs/in. width              |
| MVTR (100 in <sup>2</sup> /24 hrs) | ASTM F-1249-90@100F      | < 0.0003 grams                       |

## PRODUCT SPECIFICATION DOCUMENT CONTROL NO.: DY3008-106 REV. E

| ELECTRICAL PROPERTIES                  | TEST METHOD              | TYPICAL VALUE            |
|--|--------------------------|--------------------------|
| Surface Resistivity – Outer Surface    | ESD-STM-11.11 @ 12% R.H. | < 10 <sup>12</sup> Ω/sq. |
| Surface Resistivity – Inner Surface    | ESD-STM-11.11 @ 12% R.H. | < 10 <sup>12</sup> Ω/sq. |
| Static Decay (12% RH, 5000 to 0 Volts) | FTMS 101 Mtd 4046        | < 0.1 sec                |
| Static Shielding – Energy Penetration  | ESD-STM-11.31 @ 12% R.H. | < 10 nJ                  |
| Static Shielding -- Capacitive Probe   | EIA 541                  | < 20 V                   |



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**HEAT SEAL CONDITIONS** : 250°F -375°F, 0.8-3.5 sec, 30-70 PSI.

The values shown above were developed from random samples taken from production material. We believe them to be typical for the product. Actual values may vary somewhat from those depicted here and 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 2007