

PRODUCT SPECIFICATION

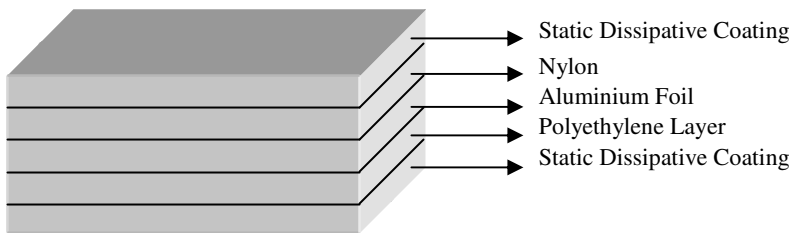
DOCUMENT CONTROL NO.: DY3008-106 REV. F

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. The combination of Nylon, Aluminium foil and polyethylene makes it a very durable structure for transportation purpose and its excellent moisture barrier capability (MVTR) is most suitable for long-term drypacked storage of sensitive devices.

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



| PHYSICAL PROPERTIES | TEST METHOD | TYPICAL VALUE |
|------------------------------------|--------------------------|------------------------------------|
| Total Thickness | ASTM D-374 | 6.0 mils ± 10% |
| Tensile Strength (At Break) | ASTM D-882-91, Method A | > 4000 psi (MD) > 4300 psi (TD) |
| Tear Strength | ASTM-D-1004-94 Notched | > 4 lbs (MD) > 4 lbs (TD) |
| Puncture Strength | FTMS 101C, Method 2065.1 | ≥ 18 lbs |
| Heat Seal Strength | ASTM D-882-91 | ≥ 16 lbs/in. width |
| MVTR (100 in ² /24 hrs) | ASTM F-1249-90@100F | ≤ 0.0006 grams |



Static Control



Cleanroom



Wafer Handling & Singulation



Electronics / Dry Packaging



IC Mold Cleaning Compound



MIM/ CIM



Tapes & Reels



Other Industrial Tools & Equipment

PRODUCT SPECIFICATION

DOCUMENT CONTROL NO.: DY3008-106 REV. F

| ELECTRICAL PROPERTIES | TEST METHOD | TYPICAL VALUE |
|------------------------------------|--------------------------|---------------------------|
| Surface Resistance – Outer Surface | ESD-STM-11.11 @12% R.H. | < 1.0x 10 ¹¹ Ω |
| Surface Resistance – Inner Surface | ESD-STM-11.11 @12% R.H. | < 1.0x 10 ¹¹ Ω |
| Static Decay (12% RH, +/-5KV to 0) | FTMS 101 Mtd 4046 | < 0.5 sec |
| Electro Static Shielding | ESD-STM-11.31 @ 12% R.H. | < 10 nJ (*) |

(*) Certain bag configurations do not meet such criteria

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 : Nov 2013



Static Control



Cleanroom



Wafer Handling & Singulation



Electronics / Dry Packaging



IC Mold Cleaning Compound



MIM/ CIM



Tapes & Reels



Other Industrial Tools & Equipment