

## PRODUCT SPECIFICATION

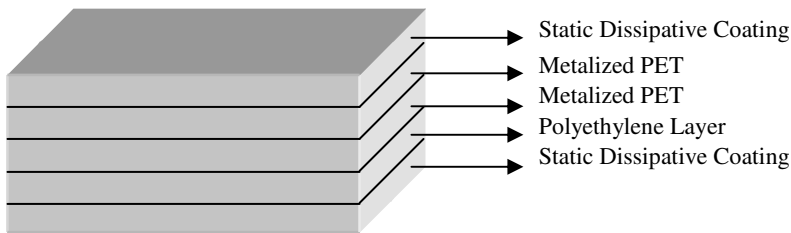
DOCUMENT CONTROL NO.: DY3008-9700 REV. D

### DY3008-9700 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 double layer of metalized PET and overall thickness make it a very durable structure for transportation purpose, and its excellent moisture barrier capability (MVTR) is suitable for 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 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	7.0 mils $\pm$ 10%
Tensile Strength	ASTM D-882-91, Method A	MD $\geq$ 4,500 psi TD $\geq$ 5,000 psi
Tear Strength	ASTM D-1004-94 Notched	MD $\geq$ 5.0 lbs TD $\geq$ 6.0 lbs
Puncture Strength	FTMS 101C, Method 2065.1	> 35 lbs
Heat Seal Strength	ASTM D-882-91	> 20 lbs/in. width
MVTR (100 in <sup>2</sup> /24 hrs)	ASTM F-1249-90@100F	< 0.002 gms

**PRODUCT SPECIFICATION**  
**DOCUMENT CONTROL NO.: DY3008-9700 REV. C**

<b>ELECTRICAL PROPERTIES</b>	<b>TEST METHOD</b>	<b>TYPICAL VALUE</b>
Surface Resistivity – Outer Surface	ANSI/ESD-STM-11.11 @12% R.H.	< 10 <sup>12</sup> Ω/sq. < 10 <sup>11</sup> Ω.
Surface Resistivity – Inner Surface	ANSI/ESD-STM-11.11 @12% R.H.	< 10 <sup>12</sup> Ω/sq. < 10 <sup>11</sup> Ω.
Static Decay (12% RH, 5000 to 0 Volts)	FTMS 101 Mtd 4046	< 0.02 sec
Static Shielding – Energy Penetration	ESD-STM-11.31 @ 12% R.H.	< 10 nJ
Static Shielding -- Capacitive Probe	EIA 541	< 10 V



Static Control



Cleanroom



Wafer Handling & Singulation



Electronics / Dry Packaging

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

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



IC Mold Cleaning Compound



MIM/ CIM



Tapes & Reels

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.



Other Industrial Tools & Equipment

Date : May 2008