

## PRODUCT SPECIFICATION

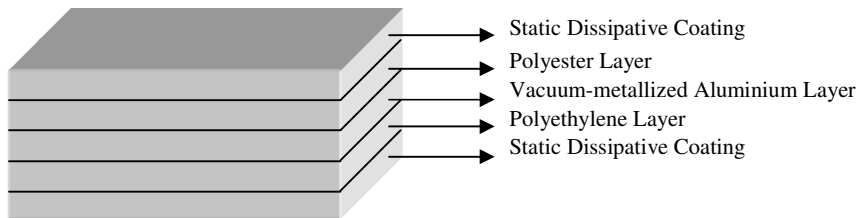
DOCUMENT CONTROL NO.: DY3650 REV. D

### DY3650 STATIC SHIELDING MATERIAL

**PRODUCT** : STATIC SHIELDING FILM (BAG)

**DESCRIPTION** : Heat sealable, electro static protective, flexible multi-layer laminated material for packaging of ESD sensitive devices.

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



PHYSICAL PROPERTIES	TEST METHOD	TYPICAL VALUE
Total Thickness	ASTM D-374	3.0 mils $\pm$ 10%
Tensile Strength	ASTM D-882-91, Method A	MD > 5,000 psi TD > 5,500 psi
Tear Strength	ASTM D-1004-94 Notched	MD > 2.0 lbs TD > 2.8 lbs
Puncture Strength	FTMS 101C, Method 2065.1	> 12 lbs
Heat Seal Strength	ASTM D-882-91	> 10 lbs/in. width
MVTR (100 in <sup>2</sup> /24 hrs)	ASTM F-1249-90@100F	< 0.25 gm (nominal)
Light Transmission	ASTM D1003-92	40% $\pm$ 5%



Static Control



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IC Mold Cleaning Compound



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ELECTRICAL PROPERTIES	TEST METHOD	TYPICAL VALUE
Surface Resistance – Outer Surface	ANSI ESD-STM-11.11 @ 12% R.H.	< 10 <sup>12</sup> Ω/sq.
Surface Resistivity – Inner Surface	ANSI ESD-STM-11.11 @ 12% R.H.	< 10 <sup>12</sup> Ω/sq.
Surface Resistivity – Buried Metal Layer	Monroe Buried Layer Tester	< 100 Ω/sq
Static Decay (12% RH, 5000 to 0 Volts)	FTMS 101 Mtd 4046	< 0.05 sec
Static Shielding – Energy Penetration	ESD-STM-11.31 @ 12% R.H.	< 30 nJ
Static Shielding -- Capacitive Probe	EIA 541	< 25 V
Charge Generation – nominal	Modified Inclined Plane average nC/sq.in	
Quartz		< +0.10
Teflon		< -0.09



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**HEAT SEAL CONDITIONS** : 250°F -375°F, 0.5-3.5 sec, 30-70 PSI.



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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. 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.



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Date : Oct 2006



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