

## PRODUCT SPECIFICATION

DOCUMENT CONTROL NO.: DY3008-106 REV. H

### 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.



Static Control



Cleanroom



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Electronics / Dry Packaging



IC Mold Cleaning Compound



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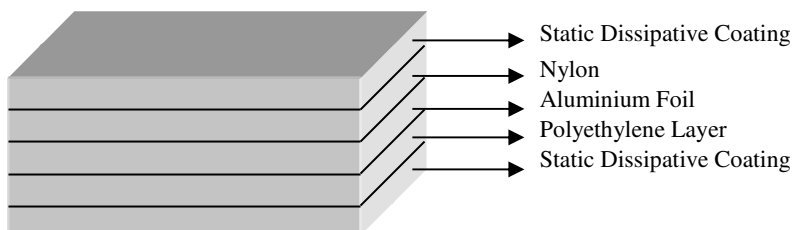


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**CONSTRUCTION**: (from outer to inner layer in bag form)



PHYSICAL PROPERTIES	TEST METHOD	TYPICAL VALUE
Total Thickness	ASTM D-374	6.0 mils $\pm$ 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	$\geq$ 18 lbs
Heat Seal Strength	ASTM D-882-91	$\geq$ 16 lbs/in. width
MVTR (100 in <sup>2</sup> /24 hrs)	ASTM F-1249-13@100F	$\leq$ 0.0006 grams

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<b>ELECTRICAL PROPERTIES</b>	<b>TEST METHOD</b>	<b>TYPICAL VALUE</b>
Surface Resistance – Outer Surface	ANSI/ESD STM-11.11 @12% R.H.	$\geq 1.0 \times 10^4$ to $< 1.0 \times 10^{11} \Omega$
Surface Resistance – Inner Surface	ANSI/ESD STM-11.11 @12% R.H.	$\geq 1.0 \times 10^4$ to $< 1.0 \times 10^{11} \Omega$
Discharge Shielding	ANSI/ESD STM-11.31 @ 12% R.H.	$< 10 \text{ nJ (*)}$

(\*) 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 : April 2019



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