

**ASTM D635-03**  
**Rate of Burning and/or Extent and Time of Burning of Plastics in a  
Horizontal Position**

**Client:** Airlite Plastic Company  
6110 Abbott Drive  
Omaha, NE 68108

**Report No.:** 3114599SAT-001 Rev. 1

**Received Date:** March 12, 2007

**Test Date:** March 19, 2007

**Report Date:** April 5, 2007

**Specimen ID:** Fox Blocks Plastic Web

**Sample Description**

Fox Blocks plastic strips

**Sample Dimensions:** 13mm x 125mm. x 7.47mm

**Sample Preparation:** Tested as received.

**Environmental Conditions:** 70°F and 65% r.h.

**Sample Conditioning:** 73±5°F and 50±5% R.H.

**This Test Witnessed by:** N/A

**Note:** This report was revised because the disclaimer statement was changed.

### Category Designation

The behavior of specimens shall be classified HB (HB = horizontal burning) if,  
a.) There is no visible signs of combustion after the source is removed, or b.) The flame front does not pass the 25 mm reference mark, or c.) The flame front passes the 25 mm reference mark but does not reach the 100 mm reference mark, or d.) The flame front reaches the 100 mm reference mark and the linear burning rate does not exceed 40 mm/min for specimens having a thickness between 3 and 13 mm or 75 mm/min for specimens having a thickness less than 3 mm.

### Summary of Test Method

A bar of the material to be tested is supported horizontally at one end. The free end is exposed to a specified methane gas flame for 30s. Elapsed time (t) and Burned length (L) are measured and reported if the specimen burns between 25mm and 100mm. An average burning rate is reported for a material if it burns to the 100-mm mark from the ignited end. If three specimens burn to the 100mm mark, the test is terminated and the average burning rate is reported.

*"This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use."*

### TEST RESULTS

Specimen	Did Flame Reach 25mm (Y/N)	Did Flame Reach 100mm (Y/N)	Elapsed Time (t) (sec)	Burned Length (L) (mm)	Burning Rate (mm/min)
1	Y	Y	247	75	18.2
2	Y	Y	255	75	17.6
3	Y	Y	263	75	17.1
Average			255.0	75.0	17.7

## Conclusion:

**This specimen meets the HB classification requirements.**

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*The subject test specimen is a traceable sample selected from the manufacturers facility. Intertek selected the specimen and has verified the composition, manufacturing techniques and quality assurance procedures under its Listing & Follow-up Service program.*

This report consists of three pages.



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Servando Romo  
Project Manager

April 5, 2007

Reviewed and approved:



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C. Anthony Peñaloza  
Flammability Testing Team Leader

April 5, 2007