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## INTERTEK ETL SEMKO

ASTM D635-03  
RATE OF BURNING AND/OR EXTENT  
AND TIME OF BURNING OF PLASTICS  
IN A HORIZONTAL POSITION

DECEMBER 20 2006

## POLYPROPYLENE WEB

STANDARD ICF CORPORATION  
425 2<sup>ND</sup> AVE SW  
ORONOCO, MN 55960

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

**Client:** Standard ICF Corporation  
425 2<sup>nd</sup> Ave. SW  
Oronoco, MN 55960

**Report No.:** 3111685SAT-003

**Received Date:** November 10, 2006  
(This specimen was received in good condition.)

**Test Date:** December 20, 2006

**Report Date:** December 28, 2006

**Specimen ID:** Polypropylene web

**Sample Description**

The polypropylene web was removed from the EPS foam system.

**Sample Dimensions:** 125mm x 13mm x 4.95mm

**Sample Preparation:** Tested as received.

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

**Environmental Conditions:** 68°F and 59% r.h.

**This Test Witnessed by:** n/a

*"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."*

### 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.

### 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	377	75	11.9
2	Y	Y	322	75	14.0
3	Y	Y	410	75	11.0
Average			369.7	75.0	12.3

**Conclusion:**

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


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This report consists of three pages.

  
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Project Manager

December 28, 2006

Reviewed and approved:

  
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Flammability Testing Team Leader

December 28, 2006