



**ASTM D635-98**  
**Rate of Burning and/or Extent and Time of Burning of Plastics**  
**in a Horizontal Position**

**Client:** Nantong Mincom Composite Materials Co., Ltd.  
No. 5 Building, Nantong Economic & Technological  
Developmental Zone, Jiangsu, China 226009

**Report No.:** 16839-123255

**Received Date:** December 29, 2004

**Test Date:** January 4, 2005

**Report Date:** January 4, 2005

**Specimen ID:** MINCOM-FRP

**Sample Description**

MINCOM FRP grating

*The test specimen identification is as provided by the client and Omega Point Laboratories, Inc. accepts no responsibility for any inaccuracies therein. Omega Point did not select the specimen and has not verified the composition, manufacturing techniques or quality assurance procedures.*

**Sample Dimensions:** 125mm x 13mm x 10mm

**Sample Preparation:** Tested as received.

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

**Environmental Conditions:** 71°F and 50% 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."*

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**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* (sec)	Burned Length* (mm)
1	No	No	N/A	N/A
2	No	No	N/A	N/A
3	No	No	N/A	N/A
4	No	No	N/A	N/A
5	No	No	N/A	N/A
6	No	No	N/A	N/A
7	No	No	N/A	N/A
8	No	No	N/A	N/A
9	No	No	N/A	N/A
10	No	No	N/A	N/A
<b>Average</b>			N/A	N/A

\* This data is not available because the flame did not reach the 25mm reference mark.



**Conclusion:**

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

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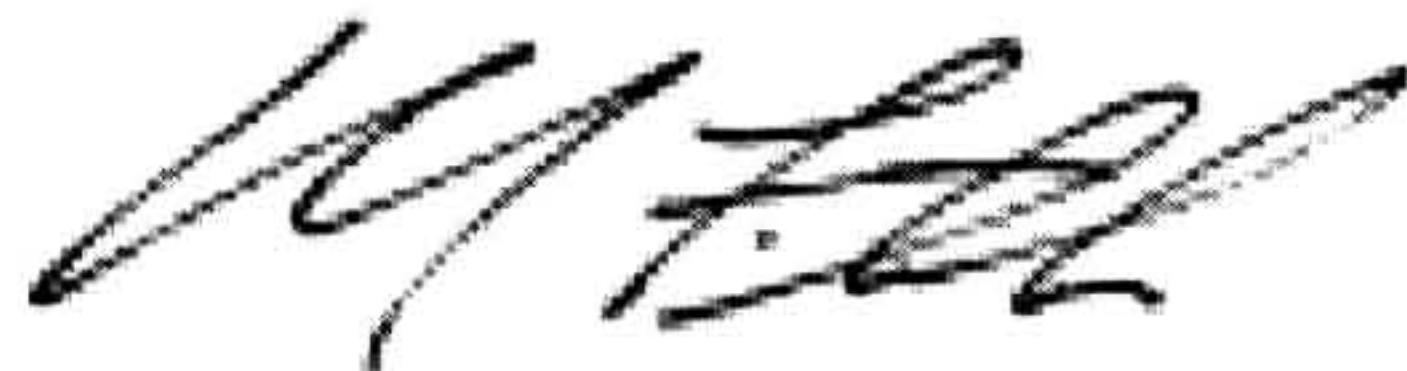
This report consists of three pages.



Servando Romo  
Manager, Small Scale Testing

1/4/05  
Date

Reviewed and approved:



William E. Fitch, P.E. No. 55296

1/4/05  
Date

