



ASTM D635-06
Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position

Client: Gallina USA, Inc.
4335 Capital Circle
Janesville WI, 53546

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Test Date: December 17, 2009
Report Date: December 18, 2009

Specimen ID: 40mm Thick Mult Wall 547

Sample Description

Clear plastic sheet

Sample Dimensions: 125mm x 13mm x .74mm

Sample Preparation: Sample cut to standard size prior to test.

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

Environmental Conditions: 68°F and 47% r.h.

This Test Witnessed by: No witness

"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."

Intertek Testing Services NA, Inc.
16015 Shady Falls Road
Elmendorf, Texas 78112
Telephone: 210-635-8100 Fax: 1-210-635-8101
e-mail: www.intertek-etlsemko.com

HB 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.

International Building Code CC1 & CC2 Criteria

Class CC1: Plastic materials that have a burning extent of 25 mm or less where tested at a nominal thickness of 0.060 in. (1.5 mm), or in the thickness intended for use, in accordance with this test method. **Class CC2:** Plastic materials that have a burning rate of 2.5 in. per minute (63.6 mm/min.) or less where tested at a nominal thickness of 0.060 in. (1.5 mm), or in the thickness intended for use, in accordance with this test method.

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 25 mm and 100 mm. An average burning rate is reported for a material if it burns to the 100 mm mark from the ignited end. If 3 specimens burn to the 100 mm mark, the test is terminated and the average burning rate is reported. If the flames do not reach the 100 mm mark, 10 specimens are tested and the burn rate is not reported.

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 |
| Average | | | 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 and in accordance with Section X2 of ASTM D635 for International Building Code Section 2606.4 referenced materials, the material tested also meets Class CC1 requirements.

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This report consists of three pages.



Thomas Haynes
Lab Technician

December 18, 2009

Reviewed and approved:



Servando Romo
Project Manager

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