



**CLIENT:** **Americover Inc.**  
2067 Wineridge Pl., Ste F  
Escondido, CA 92029

<b>Test Report No: 247580</b>	<b>Date: February 14, 2005</b>
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**The following sample was submitted by the Client as: 6mil FR Polyethylene**

**DATE OF RECEIPT:** FEBRUARY 8, 2005

**TESTING PERIOD:** FEBRUARY 10, 2005

**AUTHORIZATION:** Clients Letter

**TEST REQUESTED:** The submitted sample was tested for Surface Burning Characteristics in accordance with the procedures outlined in ASTM E84-04.

**TEST RESULTS:** Continued on the following pages

**PREPARED BY:**

**SIGNED FOR AND ON BEHALF OF  
SGS U.S. TESTING COMPANY INC.**

**Bill Booth, Technician  
Fire Technology**

**Dominick Lepore, Lab Supervisor  
Fire Technology**

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**RESULTS:**

**INTRODUCTION:**

This report presents test results of Flame Spread and Smoke Developed Values per ASTM E-84-04. The report also includes Material Identification, Method of Preparation, Mounting and Conditioning of the specimens.

The tests were performed in accordance with the specifications set forth in ASTM E-84-04, Standard Test Method for Surface Burning Characteristics of Building Materials, both as to equipment and test procedure. This test procedure is similar to UL-723, ANSI No. 2.5, NFPA No. 255 and UBC 42-1.

The test results cover two parameters: Flame Spread and Smoke Developed Values during a 10-minute fire exposure. Inorganic cement board and red oak flooring are used as comparative standards and their responses are assigned arbitrary values of 0 and 100, respectively.

**PREPARATION AND CONDITIONING:**

One piece of sample 21 inches wide X 24 feet long was into the fire chamber supported on screen and rods for testing.

The sample was conditioned at  $73^{\circ} \pm 5^{\circ}$  Fahrenheit and  $50 \pm 5\%$  relative humidity.

**TEST PROCEDURE:**

The tunnel was thoroughly pre-heated by burning natural gas. When the brick temperature, sensed by a floor thermocouple, had reached the prescribed  $105^{\circ}$  Fahrenheit  $\pm 5^{\circ}$  Fahrenheit level, the sample was inserted in the tunnel and test conducted in accordance with the standard ASTM E-84-04 procedures.

The operation of the tunnel was checked by performing a 10-minute test with inorganic board on the day of the test.



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**RESULTS:**

**TEST RESULTS:**

The test results, calculated in accordance with ASTM E-84-04 for Flame Spread and Smoke Developed Values are as follows:

Test Specimen	: 6mil FR Polyethylene
Flame Spread Index*	:15
Smoke Developed Value	:0

\*Rounded off to the nearest 5 units. Graphs of the Flame Spread, Smoke Developed and Time-Temperature are shown on the attached charts at the end of this report.

**OBSERVATIONS**

Ignition was noted at 10 seconds followed by charring, melting, shrinkage, flaming dripping and floor burning of the sample.

**RATING:**

The National Fire Protection Association Life Safety Code 101, Section 6-5.3, 'Interior Wall and Ceiling Finish Classification', has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with NFPA 255, "Method of Test of Surface Burning Characteristics of Building Materials", (ASTM E-84).

The classifications are as follows:

Class A Interior Wall & Ceiling Finish:	Smoke Developed - 0-25 Flame Spread - 0-450
Class B Interior Wall & Ceiling Finish:	Smoke Developed - 26-75 Flame Spread - 0-450
Class C Interior Wall & Ceiling Finish:	Smoke Developed - 76-200 Flame Spread - 0-450

Since the sample received a Flame Spread of 15 and a Smoke Developed Value of 0, it would fall into the Class A Interior Wall & Ceiling Finish Category.

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**End of Report**