



United States Testing Company, Inc.

291 FAIRFIELD AVENUE • FAIRFIELD, NEW JERSEY 07004 • 201-576-5252 • Fax: 201-575-8271

REPORT OF TEST

Engineering Services

CLIENT: Polymer Plastics Corporation
65 Davis Drive
Hauppauge, New York 11788

NUMBER: 111846
July 26, 1994

SUBJECT: Surface Burning Characteristics of Building Materials

REFERENCE:

Polymer Plastics Corporation, Order for Test dated June 20, 1994 per Louis Calvo.

Sample Recd.: 7-5-94

Test Date: 7-19-94

TEST PERFORMED:

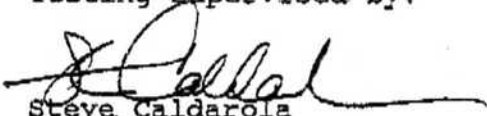
The submitted sample was tested for Flammability in accordance with the procedures outlined in ASTM E84-91a.

SAMPLE IDENTIFICATION:

One (1) sample of coated panels was submitted and identified by the Client as:

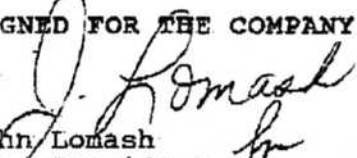
Vitriturf FR

Testing Supervised by:


Steve Caldarola
Senior Supervisor
Fire Technology

SIGNED FOR THE COMPANY

BY


John Lomash
Vice President

Page 1
of 6
lv

 **SGS** Member of the SGS Group (Société Générale de Surveillance)

• Biology • Chemistry • Environmental • Materials • Facilities in Principal Cities •

UNITED STATES TESTING COMPANY, INC. REPORTS AND LETTERS ARE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEY AND THE NAME OF THE UNITED STATES TESTING COMPANY, INC. OR ITS SEALS OR INSIGNIA ARE NOT TO BE USED UNDER ANY CIRCUMSTANCES IN ADVERTISING TO THE GENERAL PUBLIC AND THEIR COMMUNICATION TO ANY OTHERS OR THE USE OF THE NAME OF UNITED STATES TESTING COMPANY, INC. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. OUR REPORTS APPLY ONLY TO THE STANDARDS OR PROCEDURES IDENTIFIED TO THE TESTS CONDUCTED, AND TO THE SAMPLES TESTED AND/OR INSPECTIONS MADE, UNLESS OTHERWISE SPECIFIED. THE TEST AND/OR INSPECTION RESULTS ARE NOT INDICATIVE OR REPRESENTATIVE OF THE QUALITIES OF THE LOT FROM WHICH THE SAMPLE WAS TAKEN OR OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS AND NOTHING CONTAINED IN OUR REPORTS SHALL BE DEEMED TO IMPLY OR MEAN THAT UNITED STATES TESTING COMPANY, INC. CONDUCTS ANY QUALITY CONTROL PROGRAM FOR THE CLIENT TO WHOM THE REPORT IS ISSUED. SAMPLES NOT DESTROYED IN TESTING ARE RETAINED A MAXIMUM OF THIRTY DAYS AT WHICH TIME THEY MAY BE SHIPPED BACK TO THE CLIENT.

United States Testing Company, Inc.

CLIENT: Polymer Plastics Corporation

NUMBER: 111846

INTRODUCTION:

This report presents test results of Flame Spread and Smoke Developed Values per ASTM E84-91a. 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 E84-91a, "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:

Three (3) 24" x 8'0" panels were fitted end to end to form a 24" x 24'0" specimen. Since the samples were self supporting, no further preparation was necessary.

The panels were 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° Fahrenheit $\pm 5^{\circ}$ Fahrenheit level, the sample was inserted in the tunnel and test conducted in accordance with the standard ASTM E84-91a procedures.

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

United States Testing Company, Inc.**CLIENT:** Polymer Plastics Corporation**NUMBER:** 111846**TEST RESULTS:**

The test results, calculated in accordance with ASTM E84-91a for Flame Spread and Smoke Developed Values are as follows:

Test Specimen:	Vitriturf FR
Flame Spread Index*:	50
Smoke Developed Value*:	540

*Graphs of the Flame Spread, Smoke Developed and Time-Temperature are shown in Figures 1, 2 and 3 at the end of this report.

OBSERVATIONS:

Ignition was noted at 20 seconds along with charring, melting, and drippings of the specimen directly exposed to the flame. Also observed were flaming drippings and floor burning as the flamefront advanced a maximum distance of 14 feet at 9 minutes, 45 seconds. Considerable afterflame was evident upon test completion.

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 E84).

The classifications are as follows:

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

Since the sample received a Flame Spread of 50 and a Smoke Developed Value of 540 it cannot be classified as an Interior Wall & Ceiling Finish.