



TEST REPORT

CLIENT: The Onyx Collection, Inc.
202 Anderson Avenue
Blevue, KS 66407

Attn: John McCarthy

Test Report No: 2119203

Date: August 10, 2010

SUBJECT: Testing to ASTM E-84

SAMPLE ID: Sample identified as "21" x 24'" was received from the client on 8/2/10 in good condition. The sample was described by the manufacturer of containing the following items:

- **Sample Description: 21" x 24'**

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-09a, "Standard Method of Test for Surface Burning Characteristics of Building Materials". The test procedure is equivalent to UL 723, ANSI/NFPA No. 255, and UBC No. 8-1.

PREPARATION: The sample material was submitted in four pieces, 21" wide by 6' long.

TEST DATE: 8/6/10

RESULTS: Results can be found on the following pages and apply only to the sample tested.

CLASSIFICATION: The sample received a 'Class A' rating in accordance with the NFPA and IBC classification chart on page two of this report.

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

KSM

Greg Ertel
Engineering Technician

J. Brian McDonald
Fire Technology Department Manager

RESULTS:

SAMPLE: 21" x 24'

TEST DATE: 8/6/10

DATA:

| | |
|--|-------|
| <u>Ignition (minutes: seconds)</u> | 01:20 |
| <u>Flame Front (feet)</u> | 4.0 |
| <u>Time to Maximum Spread (minutes: seconds)</u> | 10:00 |
| <u>Flame Spread</u> | 10 |
| <u>Smoke Developed</u> | 90 |

| <u>NFPA Class</u> | <u>IBC Class</u> | <u>Flame Spread</u> | <u>Smoke Developed</u> |
|-------------------|------------------|---------------------|------------------------|
| A | A | 0 through 25 | ≤ 450 |
| B | B | 26 through 75 | ≤ 450 |
| C | C | 76 through 200 | ≤ 450 |

Total Test Time, (hr:min:sec): 0:10:00

Building Codes Cited:

- National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 2006 Edition.
- International Building Code, 2006 Edition, Chapter 8, Interior Finishes, Section 803

Observations:

- Blistering
- Cracking
- Sagging
- Afterglow
- Floor Burning
- Charring
- Falling
- Afterburn

GRAPHICAL RESULTS:

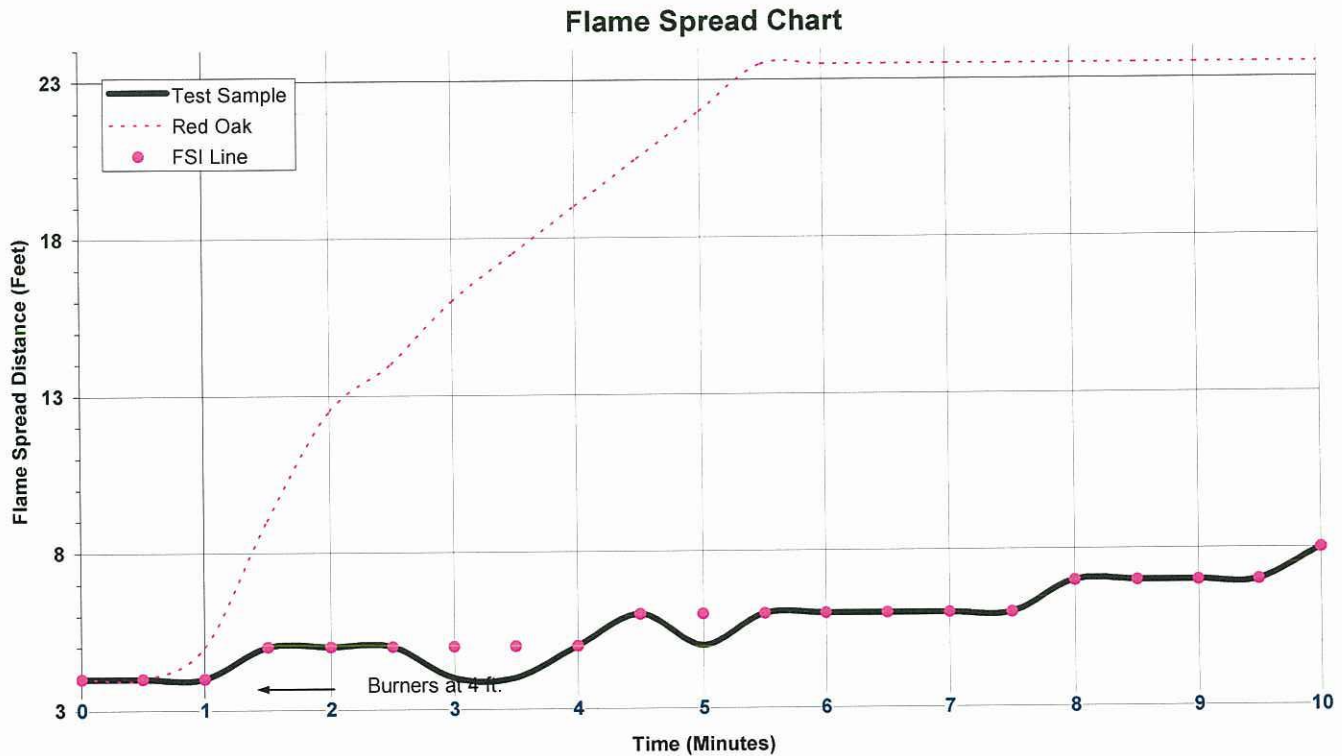


FIGURE 1. Flame Spread

GRAPHICAL RESULTS: (Cont.)

Smoke Developed Chart

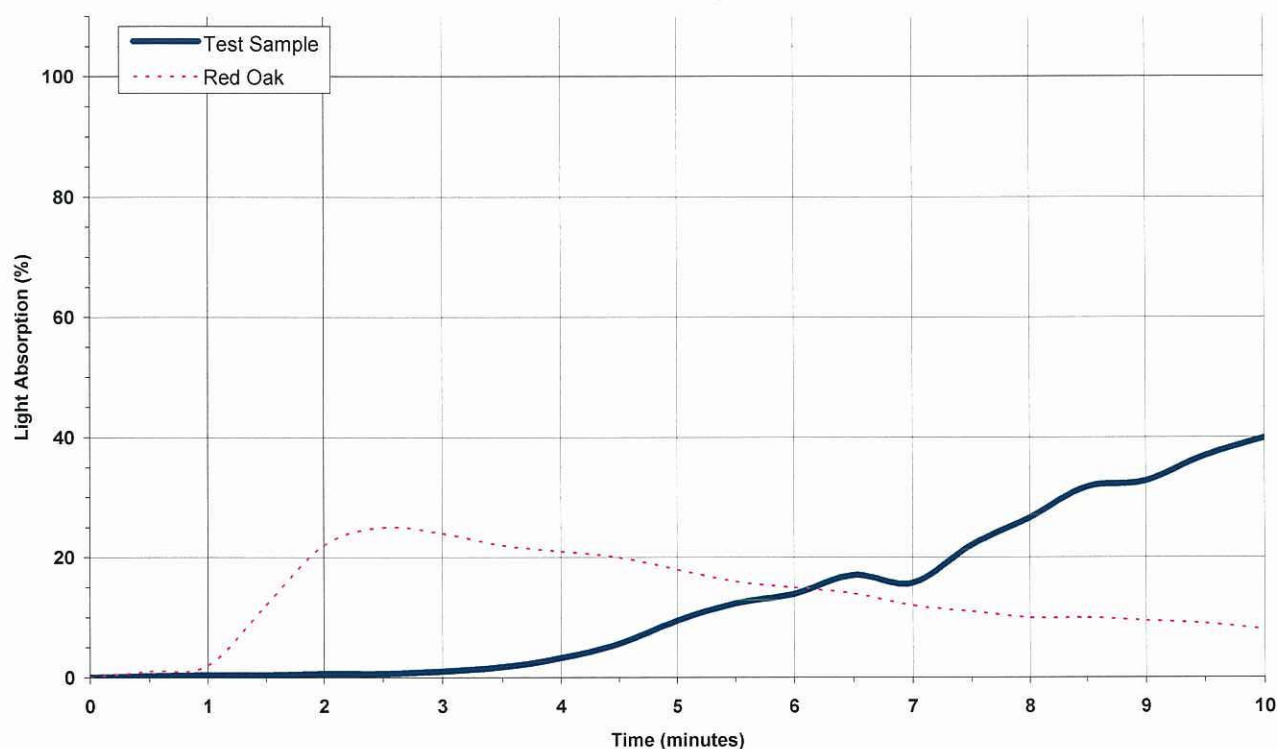


FIGURE 2. Smoke Developed

GRAPHICAL RESULTS: (Cont.)

Temperature - Time Curve

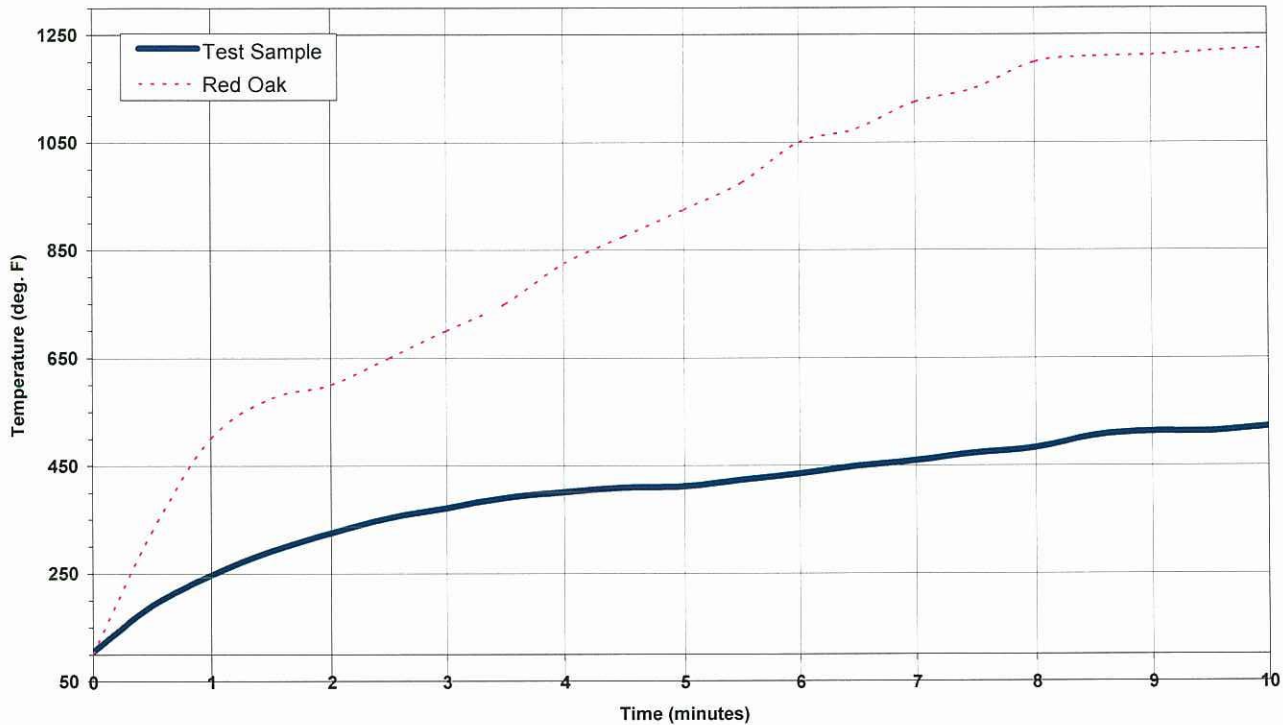


FIGURE 3. Temperature – 24 ft. Air Stream Thermocouple

End of Report