



TEST REPORT

CLIENT: Polygal Inc.
PO Box 410592
Charlotte, NC 28241

Attn: Mark Dailey

Test Report No:	2119202-16	Date:	August 18, 2010
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SUBJECT: Testing to ASTM E-84

SAMPLE ID: Sample identified as “**25mm Clear**” 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: 25mm Clear**

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 and cut by the technician into three pieces, 21" wide by 8' long.

TEST DATE: 8/13/10

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: 25mm Clear

TEST DATE: 8/13/10

DATA:

<u>Ignition (minutes: seconds)</u>	0:35
<u>Flame Front (feet)</u>	0.0
<u>Time to Maximum Spread (minutes: seconds)</u>	10:00
<u>Flame Spread</u>	0
<u>Smoke Developed</u>	120

<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:

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

Observations:

- Sagging
- Dripping
- Shrinking
- Warping
- Flame Dripping
- Melting

GRAPHICAL RESULTS:

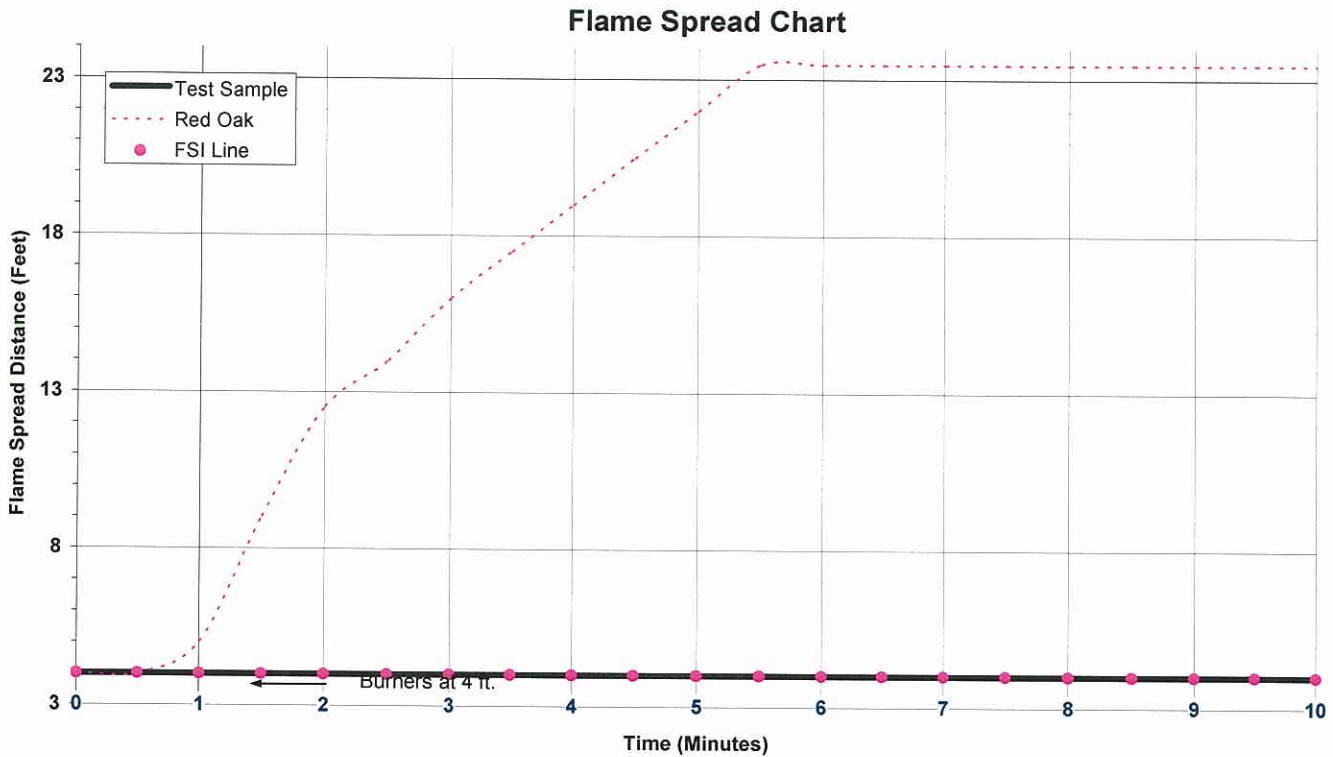


FIGURE 1. Flame Spread

GRAPHICAL RESULTS: (Cont.)

Smoke Developed Chart

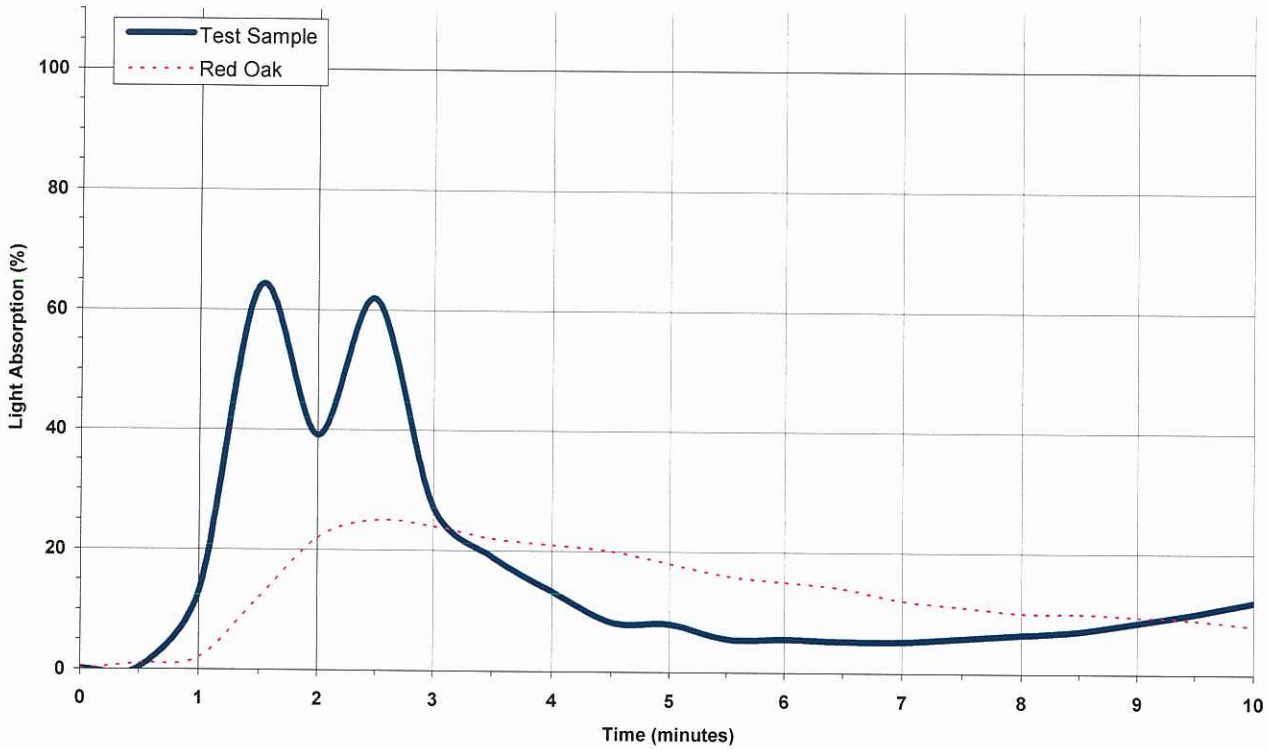


FIGURE 2. Smoke Developed

GRAPHICAL RESULTS: (Cont.)

Temperature - Time Curve

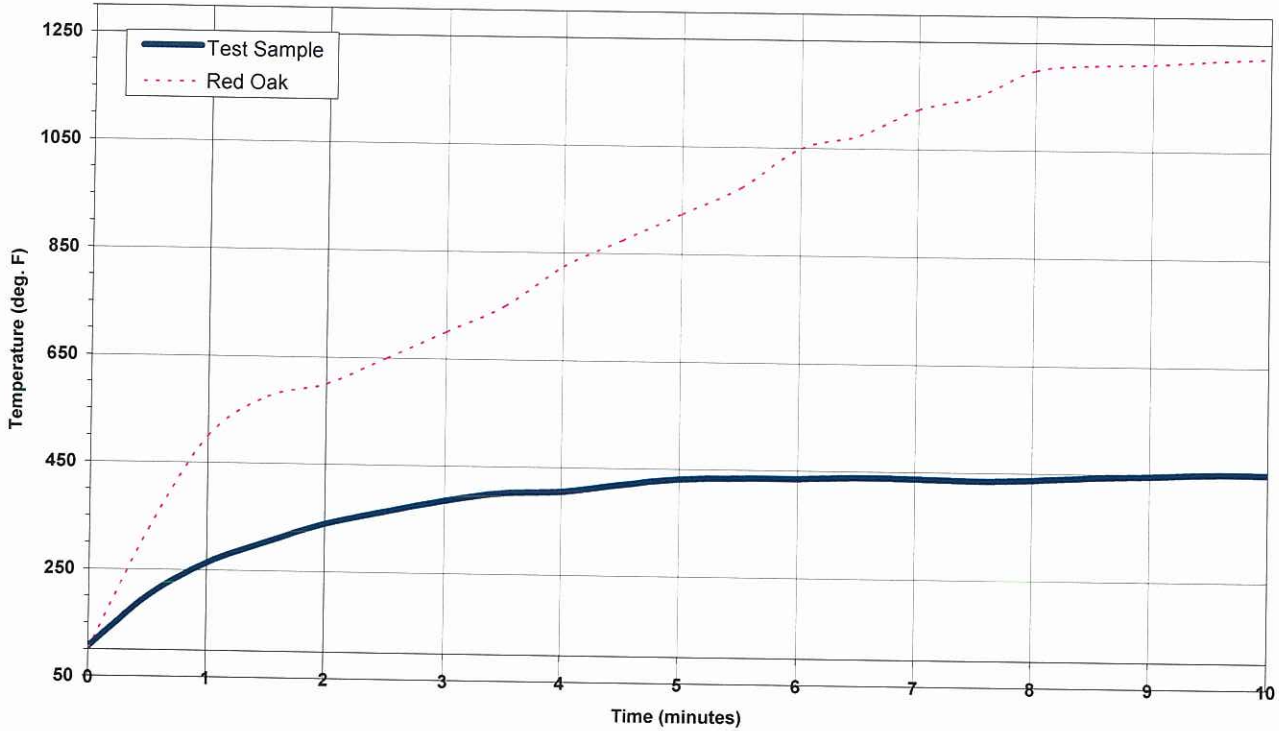


FIGURE 3. Temperature – 24 ft. Air Stream Thermocouple

End of Report