TEST REPORT

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

Attn: Nick Koszegi

Test Report No:	**2119202-15R**	**Date:**	**October 18, 2010**

SUBJECT: Testing to ASTM E-84

SAMPLE ID: Sample identified as **"16mm RFX 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: 16mm RFX**

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.

REVISION: Sample Description changed from "**16mm RFX Clear**" to "**16mm RFX**".

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

KSM

Greg Ertel
Engineering Technician

J. Brian McDonald
Fire Technology Department Manager

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Member of the SGS Group

RESULTS:

SAMPLE: **16mm RFX**

TEST DATE: 8/13/10

DATA:

Ignition (minutes: seconds)	0:30
Flame Front (feet)	4.0
Time to Maximum Spread (minutes: seconds)	10:00
Flame Spread	5
Smoke Developed	350

NFPA Class	IBC Class	Flame Spread	Smoke Developed
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:

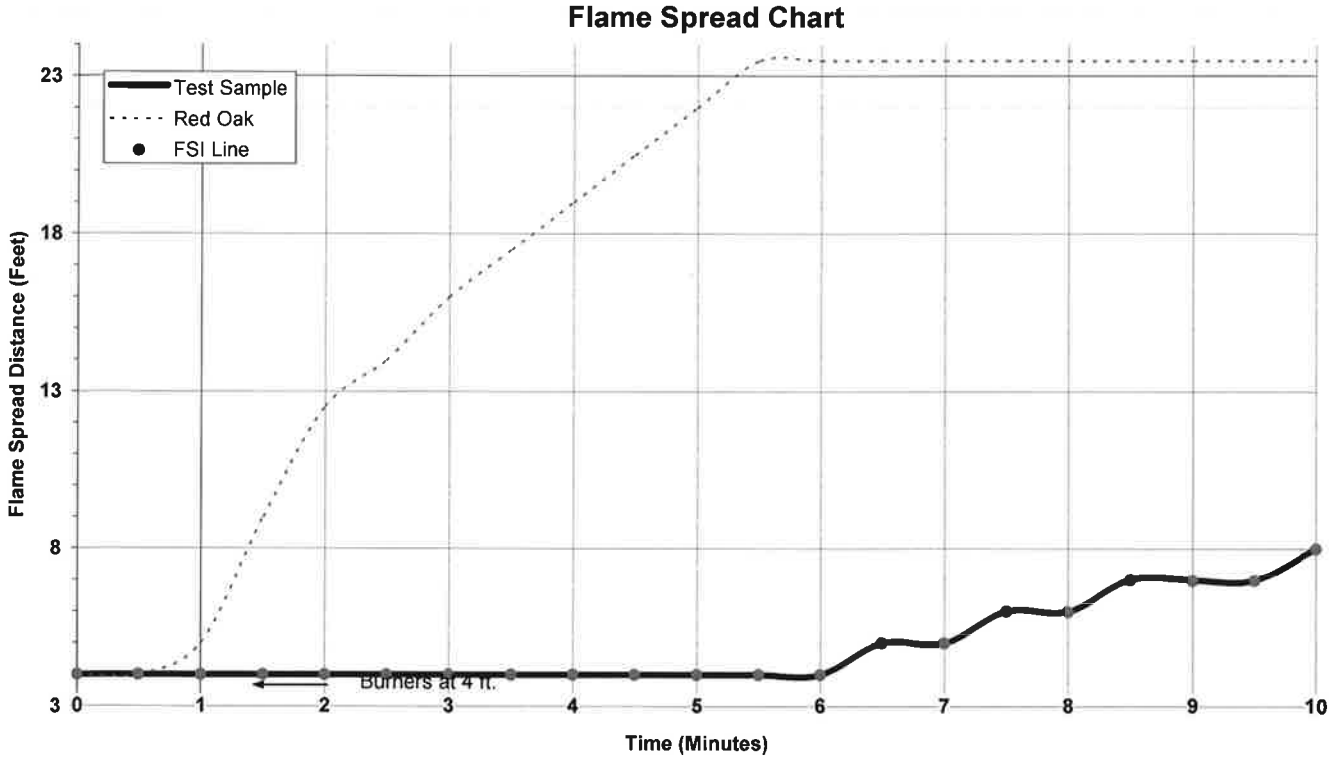

FIGURE 1. Flame Spread

GRAPHICAL RESULTS: (Cont.)

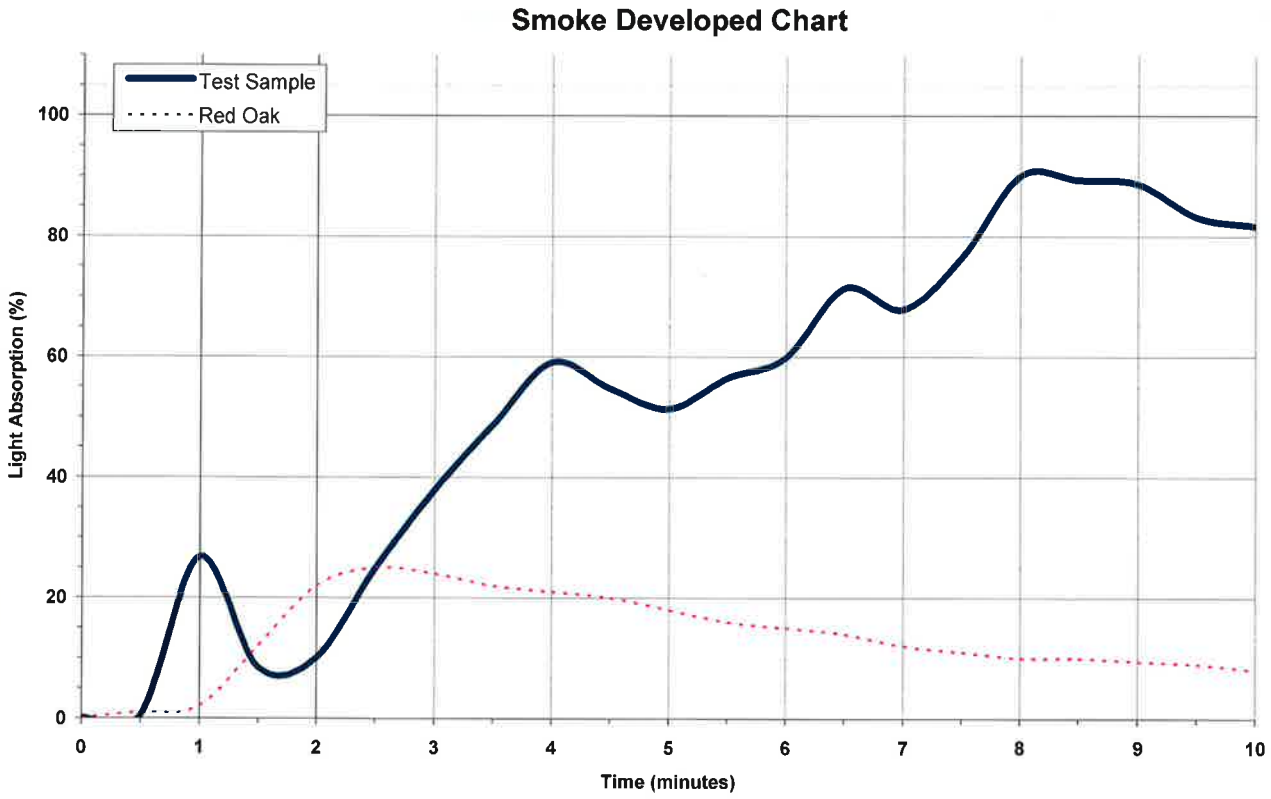

FIGURE 2. Smoke Developed

GRAPHICAL RESULTS: (Cont.)

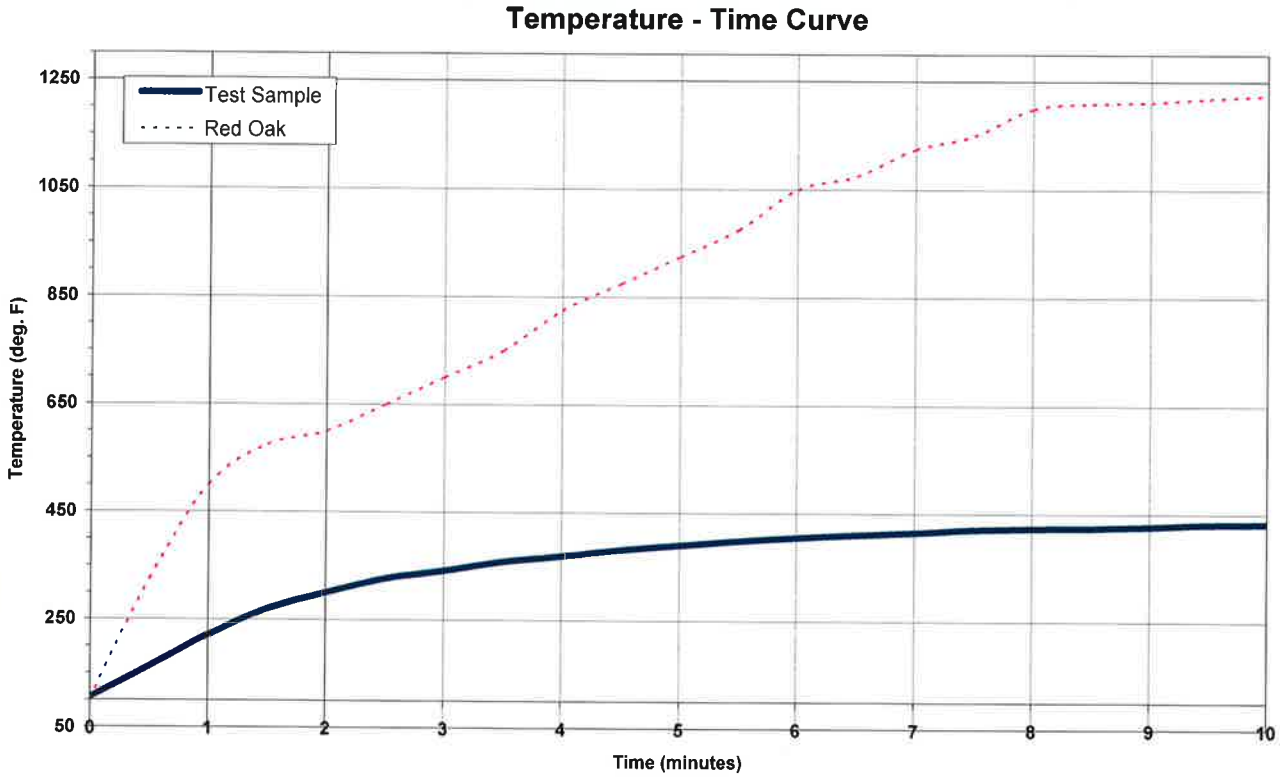

FIGURE 3. Temperature – 24 ft. Air Stream Thermocouple

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End of Report