



TEST REPORT

**CLIENT:** Sabic Innovative Plastics US LLC  
1 Lexan Lane  
Mount Vernon, IL 47620  
  
Attn: Constantin Donea

<b>Test Report No:</b>	<b>654:028183-7</b>	<b>Date:</b>	<b>November 6, 2009</b>
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**SUBJECT:** Testing to ASTM E-84

**SAMPLE ID:** Sample identified as "32mm" was received from the client on 9/24/09 in good condition. The sample was described by the manufacturer of containing the following items:

- **Sample: Lexan Thermoclear 32mm Sheet, commercialized under the grade names LTP5X32, 2XP5X32, LPD5X32, LED5X32, LXE5X32, LXD5X32**

**TEST REQUESTED:** Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-08a, "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 three pieces, 22" wide by 72" long.

**TEST DATE:** 10/8/09

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

**CERTIFICATION:** The test reported was conducted by an SGS U.S. Testing Company, Inc. approved laboratory.

**CLASSIFICATION:** Class A

**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:** 32mm

**TEST DATE:** 10/8/09

**DATA:**

<b><u>Ignition (minutes: seconds)</u></b>	01:12
<b><u>Flame Front (feet)</u></b>	1.0
<b><u>Time to Maximum Spread (minutes: seconds)</u></b>	10:00
<b><u>Flame Spread</u></b>	5
<b><u>Smoke Developed</u></b>	45

<b><u>NFPA Class</u></b>	<b><u>IBC Class</u></b>	<b><u>Flame Spread</u></b>	<b><u>Smoke Developed</u></b>
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

Graphical Data:

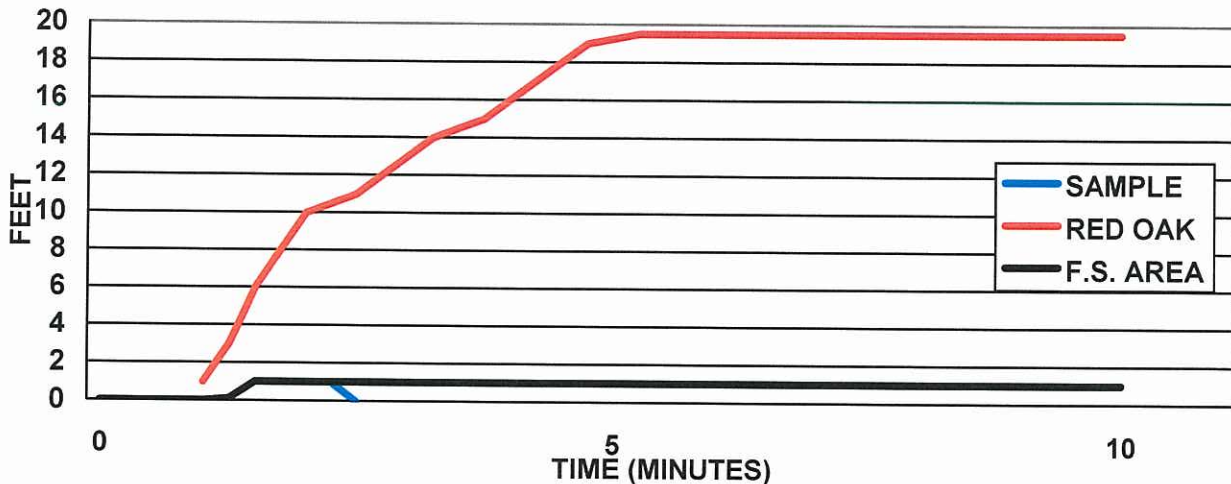


FIGURE 1. Flame Spread

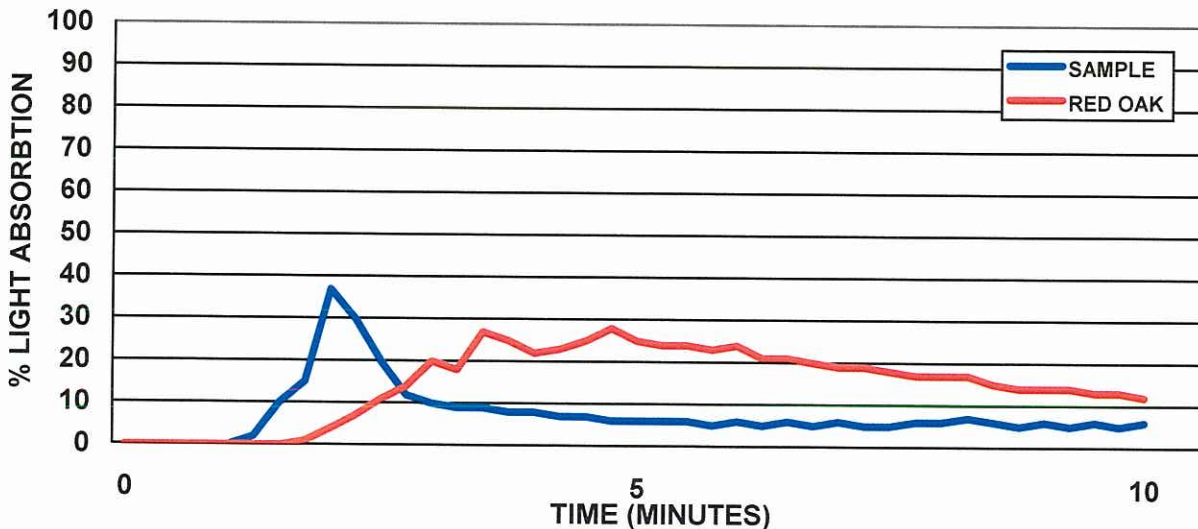


FIGURE 2. Smoke Developed

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End of Report