

CLIENT: Sabic Innovative Plastics US LLC
1 Lexan Lane
Mount Vernon, IL 47620

Attn: Constantin Donea

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| Test Report No: 654:028183-3 | Date: November 6, 2009 |
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SUBJECT: Testing to ASTM E-84

SAMPLE ID: Sample identified as "20mm" 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 20mm Sheet, commercialized under the grade names LTP5X20, 2XP5X20, LPD5X20, LED5X20, LXE5X20, LXD5X20**

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: 20mm

TEST DATE: 10/8/09

DATA:

| | |
|--|-------|
| <u>Ignition (minutes: seconds)</u> | 01:02 |
| <u>Flame Front (feet)</u> | 1.0 |
| <u>Time to Maximum Spread (minutes: seconds)</u> | 10:00 |
| <u>Flame Spread</u> | 5 |
| <u>Smoke Developed</u> | 45 |

| <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

Graphical Data:

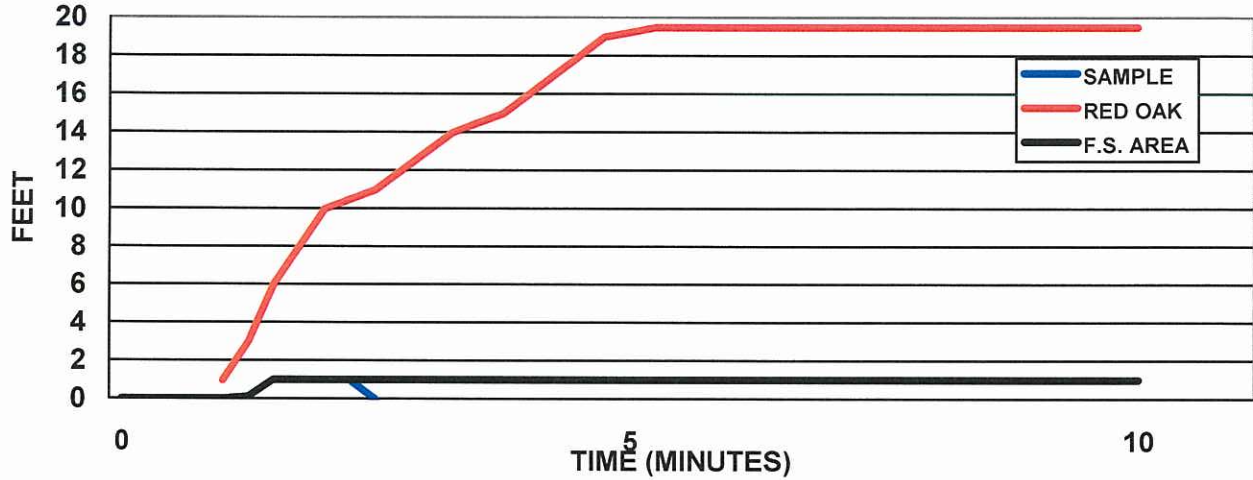


FIGURE 1. Flame Spread

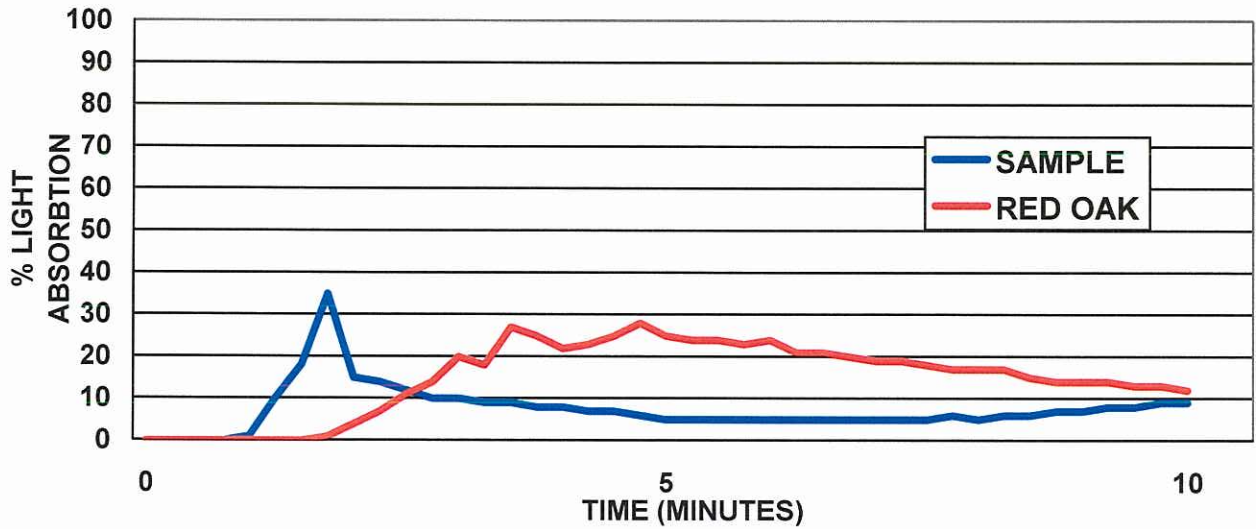


FIGURE 2. Smoke Developed

End of Report