



CLIENT: CRANE COMPOSITES Inc.

8015 Dixon Dr Florence, KY 41042

Test Report No: TJ2144-3 Date: June 12, 2014

SAMPLE ID: The Client submitted and identified the following test material as "LPCE 037"

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special

sampling conditions or sample preparation were observed by QAI.

**DATE OF RECEIPT:** Samples were received at QAI facilities on May 12, 2014

**TESTING PERIOD:** May 27, 2014

**AUTHORIZATION:** Signed work order FB-2014-020702 by Michelle Bauer.

**TEST REQUESTED:** Perform standard flame spread and smoke density developed classification tests on

the sample supplied by the Client in accordance with ASTM Designation E84-13, "Standard Method of Test for Surface Burning Characteristics of Building Materials". The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255, and UBC

No. 8-1.

TEST RESULTS: Flame Spread Smoke Developed

20 150

**CLASSIFICATION:** The material resulted in a Class A. Detailed test results are presented in the

subsequent pages of this report

Prepared By

Signed for and on behalf of QAI Laboratories, Inc.

Jeff Foster

Fire Test Technician

J. Brian McDonald Operations Manager



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**PREPARATION AND CONDITIONING:** The sample was submitted in six panels that were each 4 feet long measuring 24 inches wide and approximately 0.75 mm thick. The sample material was placed into conditioning at  $73^{\circ}F$  ( $\pm 5^{\circ}F$ ) and 50% ( $\pm 5\%$ ) relative humidity until day of testing.

# **E 84 TEST DATA SHEET:**

**MOUNTING METHOD:** The sample was supported during testing by 2" hexagonal mesh poultry netting running the length of the test chamber and ¼" round metal rods placed at 2' intervals across the width of the test chamber, with cement board place between the sample and tunnel lid..

CLIENT: CRANE COMPOSITES Inc. DATE: June 12, 2014

**SAMPLE**: LPCE 037

IGNITION: 0 minutes, 20 seconds

FLAME FRONT: 4 feet maximum

TIME TO MAXIMUM SPREAD: 1 minute, 30 seconds

TEST DURATION: 10 minutes, 00 seconds

**SUMMARY:** FLAME SPREAD: 20 (18.7 unrounded) SMOKE DEVELOPED: 150 (151 unrounded)

# **OBSERVATIONS:**

Sustained ignition began at 20 seconds .Crackling and charring were observed at 17 seconds.. There was no after flame or after burn at conclusion of 10 minute test.

### **CALIBRATION DATA:**

Time to Ignition of Last Red Oak (sec): 57
Red Oak Smoke Area (%A\* Min): 111
Total Fuel Burned (ft³) 59.68





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# **SUMMARY OF ASTM E84 RESULTS:**

Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5. Smoke Density values over 200 are rounded to the nearest figure divisible by 50.

In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

NFPA CLASS	<b>IBC CLASS</b>	<b>FLAME SPREAD</b>	SMOKE DEVELOPED
Α	Α	0 through 25	Less than or equal to 450
В	В	26 through 75	Less than or equal to 450
С	С	76 through 200	Less than or equal to 450

# **BUILDING CODES CITED:**

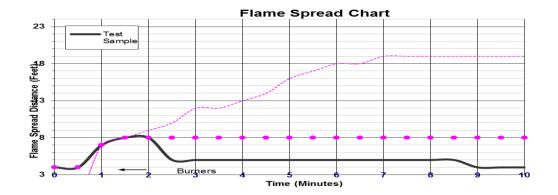
- 1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 2006 Edition.
- 2. International Building Code, 2006 Edition, Chapter 8, Interior Finishes, Section 803.

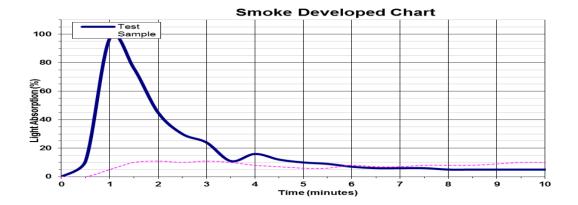
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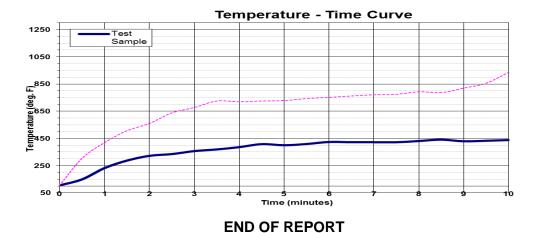
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