

CLIENT: **CRANE COMPOSITES**
23525 W. Eames St.
Channahon, IL 60410

Test Report No: TJ3315	Date: October 30, 2015
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SAMPLE ID: The client identified the following test material as “**GLASBORD FX 09**”

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 October 9, 2015

TESTING PERIOD: October 26, 2015

AUTHORIZATION: Signed work order VB-2015-092501

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with CAN/ULC S102-10, “Method of Test for Surface Burning Characteristics of Building Materials and Assemblies”.

TEST RESULTS:	<u>Flame Spread Rating</u>	<u>Smoke Developed Classification</u>
	10	30

Detailed test results are presented in the subsequent pages of this report

Prepared By



Jeff Foster
Fire Test Technician

**Signed for and on behalf of
QAI Laboratories, Inc.**



J. Brian McDonald
Operations Manager

PREPARATION AND CONDITIONING: The sample was submitted in six panels 4 feet long measuring 24 inches wide and approximately 1.95 MM thick. The sample material was placed into conditioning at 73°F (±5°F) and 50% (±5%) relative humidity until day of testing.

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.

CEMENT BOARD PLACEMENT: The 1/4" cement boards were placed between the test specimen and the chamber lid.

TEST RESULTS:	<u>Flame Spread Values</u>	<u>Smoke Developed Values</u>
Test No. 1	15.9	35
Test No. 2	8.9	28
Test No. 3	<u>9.4</u>	<u>27</u>
Average	11.4	30

Rounded Average Flame Spread Rating (FSR): 10

Rounded Average Smoke Developed Classification (SDC): 30

CAN/ULC S102-10 TEST DATA SHEET: (Test 1)

CLIENT: Crane Composites **DATE:** October 30, 2015

SAMPLE: Glasbord FX 09

IGNITION: 2 minutes, 07 seconds

FLAME FRONT: 5 feet maximum

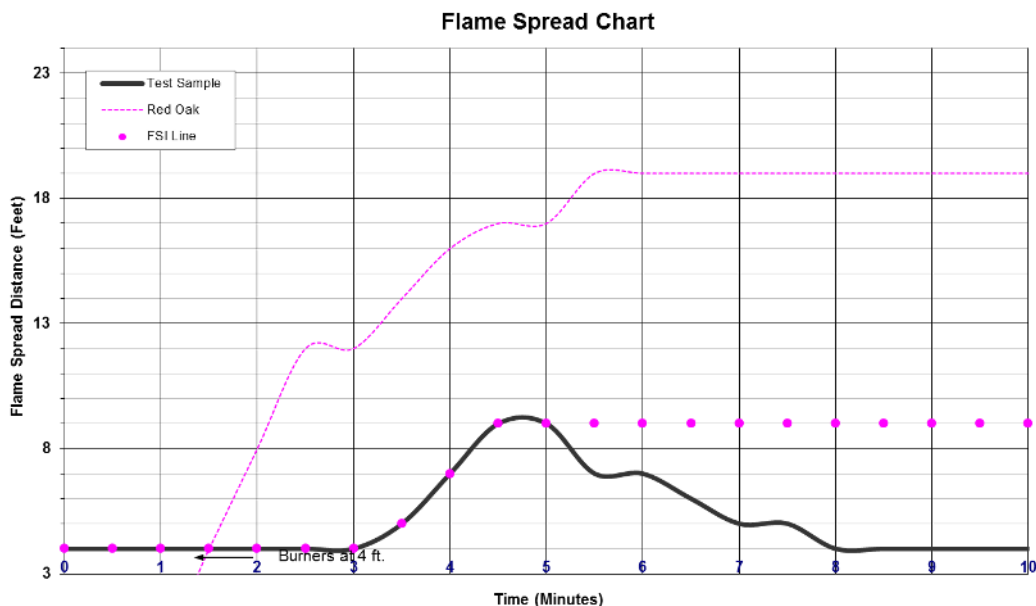
TIME TO MAXIMUM SPREAD: 4 minutes, 30 seconds

TEST DURATION: 10 minutes, 00 seconds

SUMMARY: FLAME SPREAD: 15.9 SMOKE DEVELOPED: 35

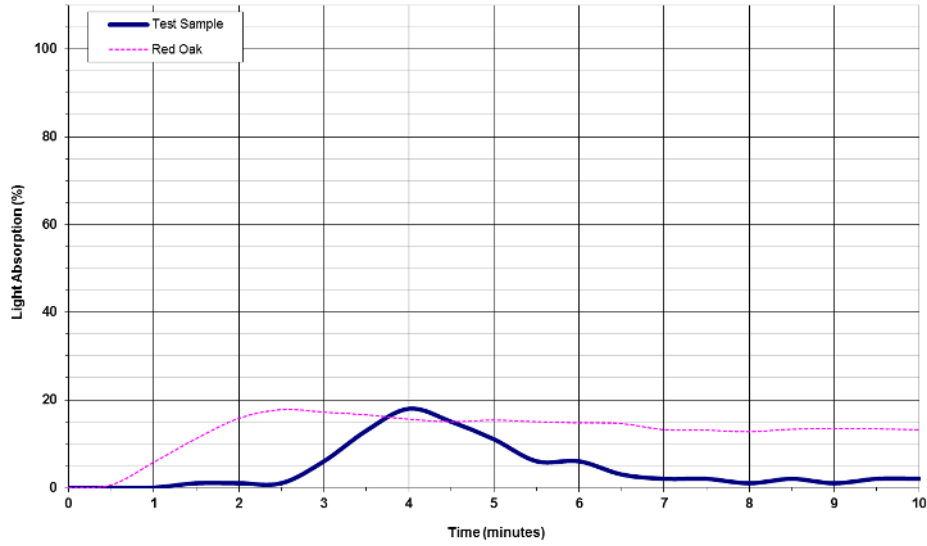
OBSERVATIONS:

Crackling was heard at 30 seconds. Sustained ignition was seen at 2 minutes 07 seconds. Flame spread was slow and had reached 5 feet at 4 minutes 30 seconds with very light smoke. No after burn or afterglow at the conclusion of the ten minute test.

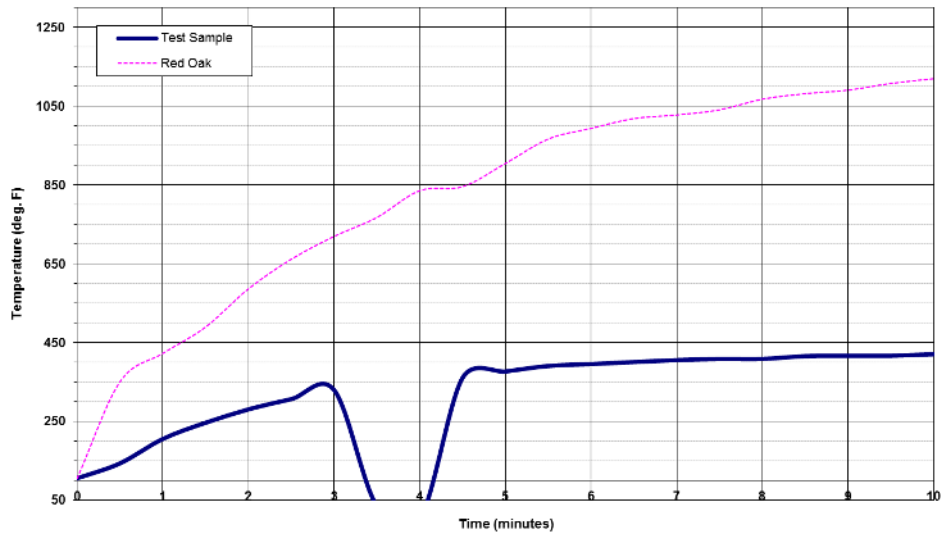


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Smoke Developed Chart



Temperature - Time Curve



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CAN/ULC S102-10 TEST DATA SHEET: (Test 2)

CLIENT: Crane Composites **DATE:** October 30, 2015

SAMPLE: Glasbord FX 09

IGNITION: 2 minutes, 47 seconds

FLAME FRONT: 3 feet maximum

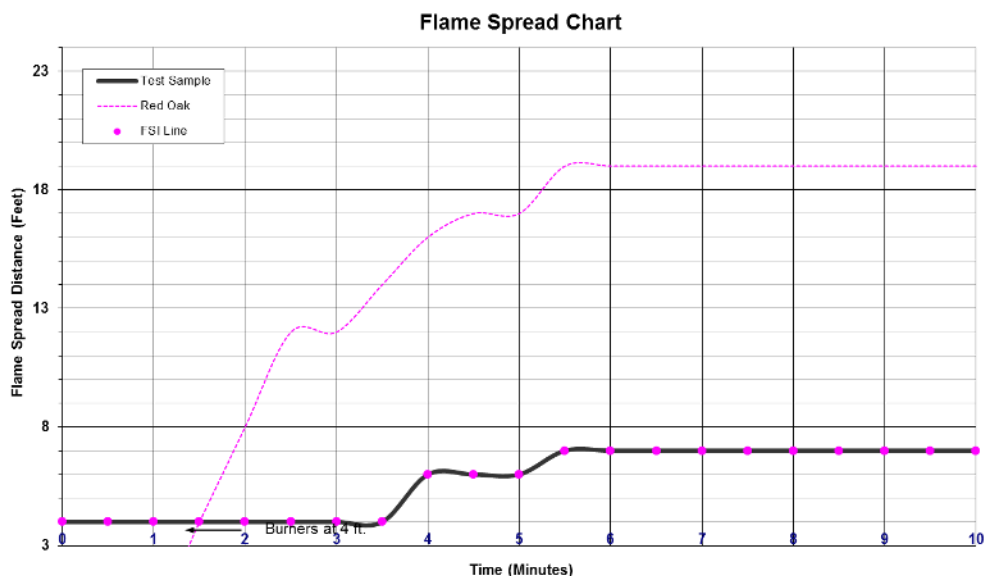
TIME TO MAXIMUM SPREAD: 5 minutes, 30 seconds

TEST DURATION: 10 minutes, 00 seconds

SUMMARY: FLAME SPREAD: 8.9 SMOKE DEVELOPED: 28

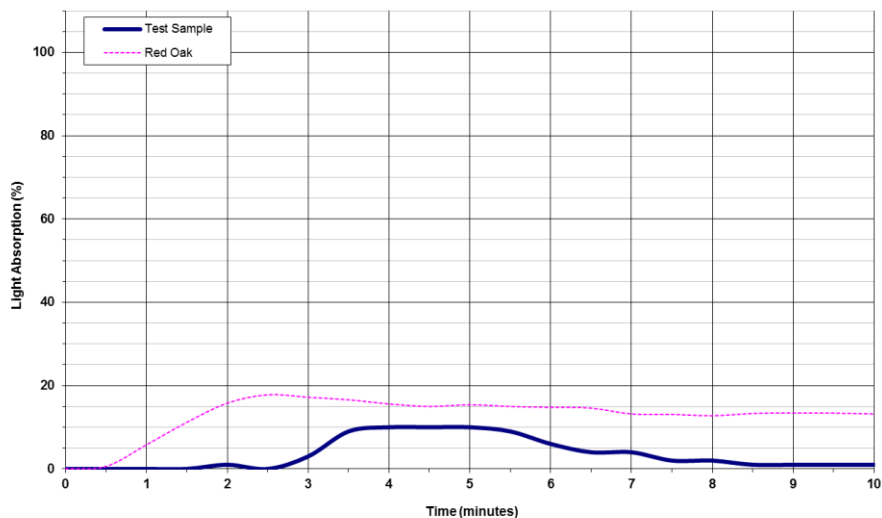
OBSERVATIONS:

Crackling was heard at 51 seconds. Sustained ignition was seen at 2 minutes 47 seconds. Flame spread was slow and had reached three feet at 5 minutes 30 seconds with very light smoke. No after burn or afterglow at the conclusion of the ten minute test.

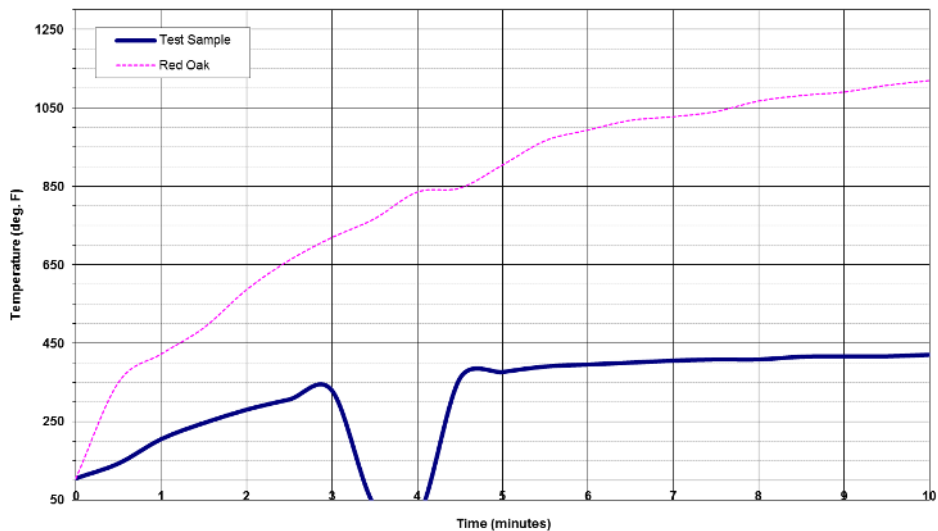


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Smoke Developed Chart



Temperature - Time Curve



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CAN/ULC S102-10 TEST DATA SHEET: (Test 3)

CLIENT: Crane Composites **DATE:** September 3, 2015

SAMPLE: Glasbord FX 09

IGNITION: 2 minutes, 21 seconds

FLAME FRONT: 3 feet maximum

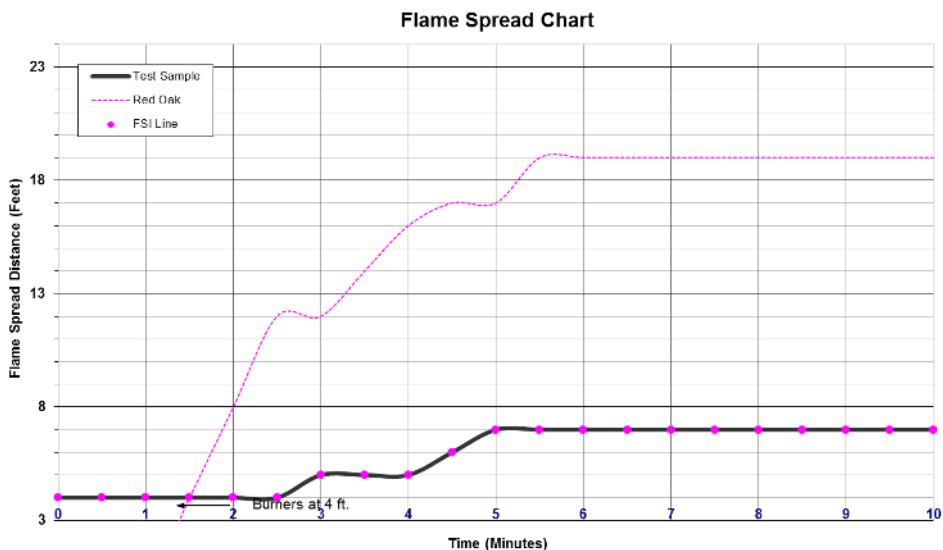
TIME TO MAXIMUM SPREAD: 5 minutes, 00 seconds

TEST DURATION: 10 minutes, 00 seconds

SUMMARY: FLAME SPREAD: 9.4 SMOKE DEVELOPED: 27

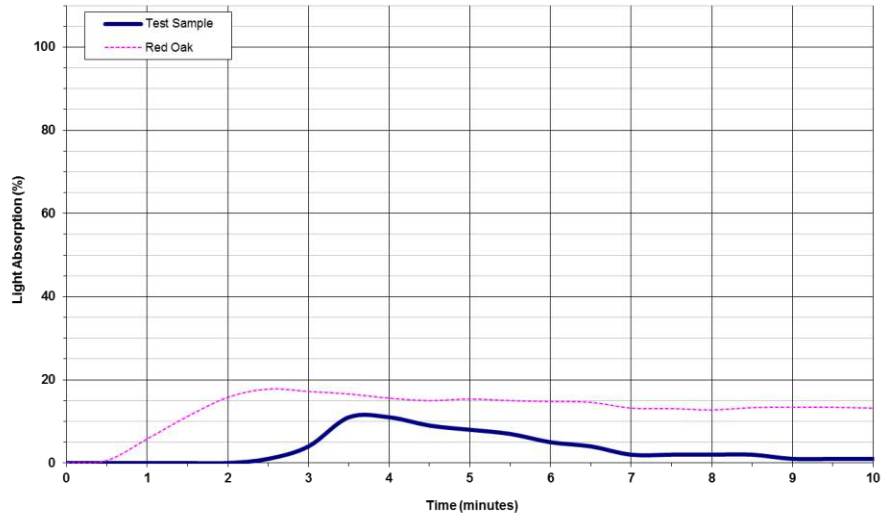
OBSERVATIONS:

Crackling was heard at 41 seconds. Sustained ignition was seen at 2 minutes 21 seconds. Flame spread was slow and had reached 3 feet at 5 minutes with very light smoke. No after burn or afterglow at the conclusion of the ten minute test.

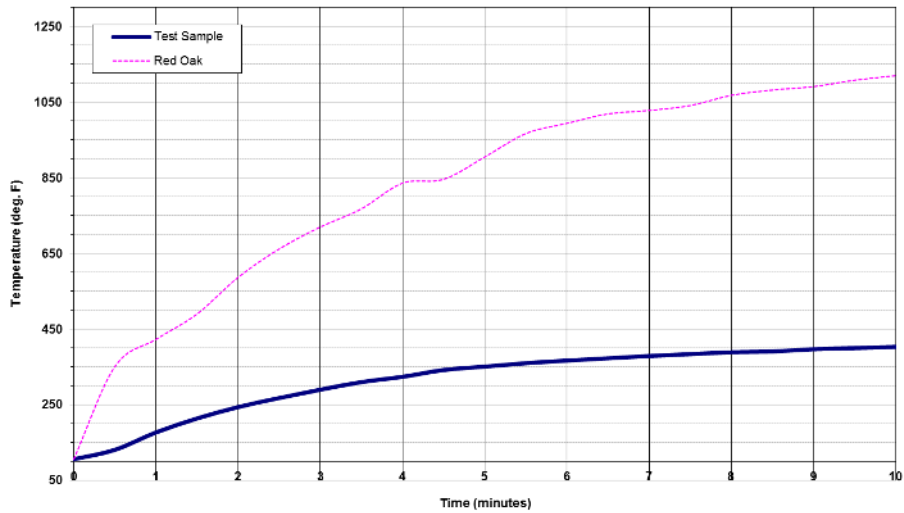


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Smoke Developed Chart



Temperature - Time Curve



*****END OF TEST REPORT*****

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