



CLIENT: CRANE COMPOSITES

Attn: Mike Buhr

23525 W. Eames Street Channahon, IL 60410

Test Report No: TJ1319-4 Date: August 6, 2013

SAMPLE ID: The Client submitted and identified the following test material as "Glasbord PWI 06"

85".

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 July 30, 2013

TESTING PERIOD: July 31, 2013

AUTHORIZATION: Purchase Order 87611

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

the sample supplied by the Client in accordance with ASTM Designation E84-12, "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: <u>Flame Spread</u> <u>Smoke Developed</u>

40 175

CLASSIFICATION: The material tested resulted in a Class B. Detailed test results are presented in the

subsequent pages of this report

Prepared By

QAI Laboratories, Inc.

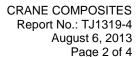
Signed for and on behalf of

Jared Weise

Fire Test Technician

J. Brian McDonald Operations Manager

Page 1 of 3





PREPARATION AND CONDITIONING: The sample was submitted in six 4 foot long panels measuring 24 inches wide and approximately 0.25 inches thick. The sample material was placed into conditioning at 73°F (±5°F) and 50% (±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 ½" round metal rods placed at 2' intervals across the width of the test chamber.

CLIENT: Crane Composites **DATE**: July 31, 2013

SAMPLE: Glasbord PWI 06 85

IGNITION: 0 minutes, 38 seconds

FLAME FRONT: 9 feet maximum

TIME TO MAXIMUM SPREAD: 2 minutes, 00 seconds

TEST DURATION: 10 minutes, 00 seconds

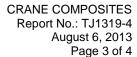
SUMMARY: FLAME SPREAD: 40 (40.5 unrounded) SMOKE DEVELOPED: 175 (174 unrounded)

OBSERVATIONS:

Sample ignited at 38 seconds after burner ignition. Twenty seconds into the test, audible cracking could be heard followed by ignition at 38 seconds. Product began to char heavily shortly after. Significant flame spread and smoke production appeared at beginning of test then died down halfway through test. No significant changes for remainder of 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





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.

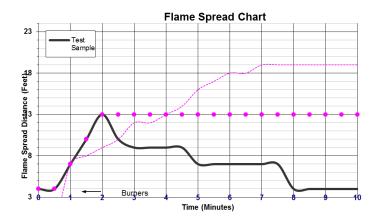
In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

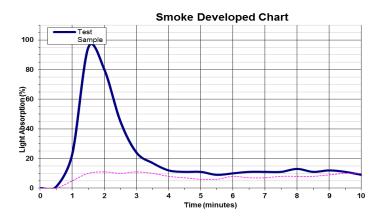
NFPA CLASS	IBC CLASS	FLAME SPREAD	SMOKE DEVELOPED
A	A	0 through 25	Less than or equal to 450
В	В	26 through 75	Less than or equal to 450
С	С	76 through 200	Less than or equal to 450

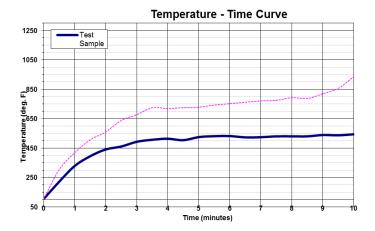
BUILDING CODES CITED:

- 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.









END OF REPORT