

**CLIENT: SABIC INNOVATIVE PLASTICS**

1 Lexan Lane  
Mt. Vernon, IN 47620  
Constantin Donea

**Test Report No: RJ1164-6**

**Date: March 25, 2011**

**SAMPLE ID:** The Client submitted and identified the following test material as Lexapanel polycarbonate sheet commercialized under the grade names SS205XP, SS205XX, SS205XD, SS205XE, SS205X1 and SS205X2. Note: Specimens were cut parallel to the ribs of the material.

**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 on January 25, 2011.

**TESTING PERIOD:** February 7, 2011.

**AUTHORIZATION:** Testing authorized by Constantin Donea.

**TEST REQUESTED:** ASTM Designation D635-06 "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position".

**TEST RESULTS:** Detailed test results are presented in the subsequent pages of this report

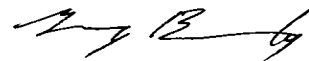
**CLASSIFICATION:** The submitted sample is classified CC1 in accordance with UBC Standard 26-7, SEC. 26.706.5  
See classification requirements on page 2.

**Prepared By**



Brian Ortega  
Test Technician

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



Greg Banasky  
Senior Test Technician



**TEST RESULTS:**

Number of Specimens Tested: 10  
Average Specimen Thickness: 20 mm nominal  
Range of Time of Burning: 6 to 12 seconds

**OBSERVATIONS:** None specimens burned to the 25 mm mark.

**CLASSIFICATION REQUIREMENTS PER UBC STANDARD 26-7, SEC. 26.706.5**

CC1: Plastic materials which have a burning extent of 1 inch (25mm) or less when tested in nominal .060-inch (1.5mm) thickness (or in the thickness intended for use) by this test.

CC2: Plastic materials which have a burning rate of 2.5 inches per minute (64mm/min) or less when tested in nominal 0.060-inch (1.5mm) thickness (or in the thickness intended for use) by this test.

**CLIENT: SABIC INNOVATIVE PLASTICS**

1 Lexan Lane  
Mt. Vernon, IN 47620  
Constantin Donea

**Test Report No: RJ1164-5**

**Date: March 25, 2011**

**SAMPLE ID:** The Client submitted and identified the following test material as Lexapanel polycarbonate sheet commercialized under the grade names SS205XP, SS205XX, SS205XD, SS205XE, SS205X1 and SS205X2. Note: Specimens were cut perpendicular to the ribs of the material.

**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 on January 25, 2011.

**TESTING PERIOD:** February 7, 2011.

**AUTHORIZATION:** Testing authorized by Constantin Donea.

**TEST REQUESTED:** ASTM Designation D635-06 "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position".

**TEST RESULTS:** Detailed test results are presented in the subsequent pages of this report

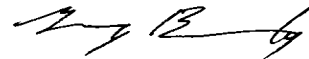
**CLASSIFICATION:** The submitted sample is classified CC1 in accordance with UBC Standard 26-7, SEC. 26.706.5  
See classification requirements on page 2.

**Prepared By**



Brian Ortega  
Test Technician

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



Greg Banasky  
Senior Test Technician



**TEST RESULTS:**

Number of Specimens Tested: 10  
Average Specimen Thickness: 20 mm nominal  
Range of Time of Burning: 9 to 15 seconds

**OBSERVATIONS:** None specimens burned to the 25 mm mark.

**CLASSIFICATION REQUIREMENTS PER UBC STANDARD 26-7, SEC. 26.706.5**

CC1: Plastic materials which have a burning extent of 1 inch (25mm) or less when tested in nominal .060-inch (1.5mm) thickness (or in the thickness intended for use) by this test.

CC2: Plastic materials which have a burning rate of 2.5 inches per minute (64mm/min) or less when tested in nominal 0.060-inch (1.5mm) thickness (or in the thickness intended for use) by this test.

**CLIENT: SABIC INNOVATIVE PLASTICS**  
1 Lexan Lane  
Mt. Vernon, IN 47620  
Constantin Donea

<b>Test Report No: RJ1164-4</b>	<b>Date: March 25, 2011</b>
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**SAMPLE ID:** The Client submitted and identified the following test material as Lexapanel polycarbonate sheet commercialized under the grade names SS205XP, SS205XX, SS205XD, SS205XE, SS205X1 and SS205X2. The connections were placed away from the flame source.

**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 on January 25, 2011.

**TESTING PERIOD:** February 4, 2011.

**AUTHORIZATION:** Testing authorized by Constantin Donea.

**TEST REQUESTED:** Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-09, "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.

<b>TEST RESULTS:</b>	<b><u>Flame Spread</u></b>	<b><u>Smoke Developed</u></b>
	0	65

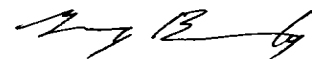
Detailed test results are presented in the subsequent pages of this report

**Prepared By**



Brian Ortega  
Test Technician

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



Greg Banasky  
Senior Test Technician



**PREPARATION AND CONDITIONING:** The sample material was submitted in six pieces, 22" wide by 48" long. The sample was not supported during testing.

**E 84 TEST DATA SHEET:**

**CLIENT:** Sabic Innovative Plastics **DATE:** 02/04/11

**SAMPLE:** Lexapanel polycarbonate sheet commercialized under the grade names SS205XP, SS205XX, SS205XD, SS205XE, SS205X1 and SS205X2

**FLAME SPREAD:**

**IGNITION:** 1 minute, 1 second

**FLAME FRONT:** 0 feet

**TIME TO MAXIMUM SPREAD:** N/A

**TEST DURATION:** 10 minutes

**CALCULATION:** N/A

N/A = Not applicable

**SUMMARY: FLAME SPREAD: 0 SMOKE DEVELOPED: 65**

**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.

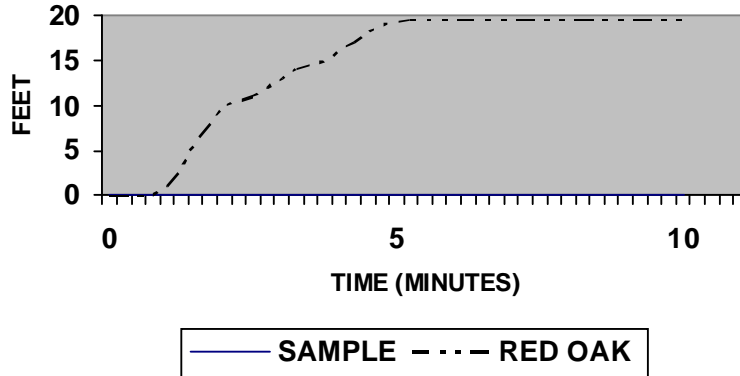
In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

<u>NFPA CLASS</u>	<u>IBC CLASS</u>	<u>FLAME SPREAD</u>	<u>SMOKE DEVELOPED</u>
A	A	0 through 25	Less than or equal to 450
B	B	26 through 75	Less than or equal to 450
C	C	76 through 200	Less than or equal to 450

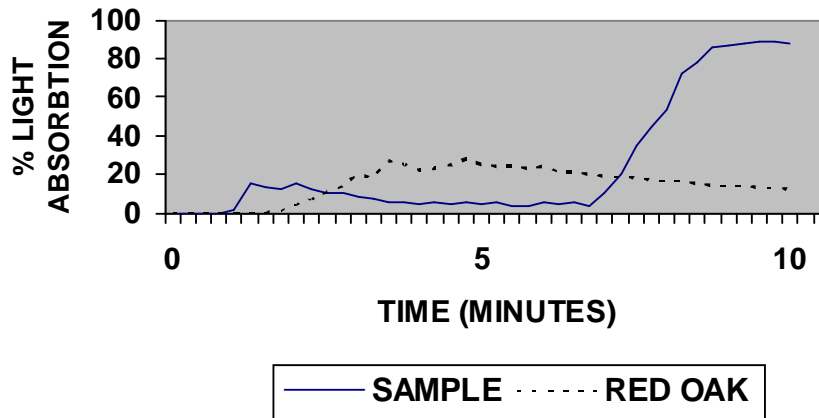
**BUILDING CODES CITED:**

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.

### FLAME SPREAD



### SMOKE DEVELOPED



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