

CLIENT: SABIC INNOVATIVE PLASTICS

1 Lexan Lane
Mt. Vernon, IN 47620
Constantin Donea

Test Report No: RJ1216-1

Date: March 16, 2011

SAMPLE ID: The Client submitted and identified the following test material as LTC509X, Lot No. 1A0527 50mm Multi wall polycarbonate sheet.

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 February 18, 2011.

TESTING PERIOD: February 25, 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.

TEST RESULTS:	<u>Flame Spread</u>	<u>Smoke Developed</u>
	5	20

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 three pieces, 22" wide by 96" long. The sample was not supported during testing.

E 84 TEST DATA SHEET:

CLIENT: Sabic Innovative Plastics **DATE:** 02/25/11

SAMPLE: LTC509X, Lot No. 1A0527 50mm Multi wall polycarbonate sheet

FLAME SPREAD:

IGNITION: 50 seconds

FLAME FRONT: 1 foot maximum

TIME TO MAXIMUM SPREAD: 1 minute, 13 seconds

TEST DURATION: 10 minutes

CALCULATION: 13.37 x 0.515 = 6.88

SUMMARY: FLAME SPREAD: 5 SMOKE DEVELOPED: 20

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.

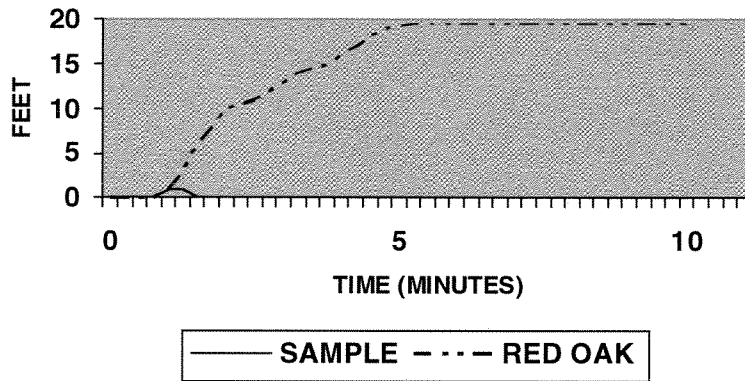
In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

<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

