



SGS U.S. Testing Company Inc.

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CLIENT: GE PLASTICS

One Plastics Avenue
Pittsfield, MA 01201
Dennis Furlano

Test Report No:	152166-3	Date:	March 6, 2001
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SAMPLE ID: The Client submitted and identified the following test material as 10 mm Lexan Thermoclear Sheet, LTC2R10, copy side up.

DATE OF RECEIPT: Entered into SGS USTC sample tracking system on February 14, 2001 as STN 32888.

TESTING PERIOD: March 5, 2001.

AUTHORIZATION: Client's Purchase Order Number P15408000.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-00, "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 Density</u>
	5	175
	For detailed results see page 3.	

Prepared by

Greg Banasky
Supervisor Fire Technology

Signed for and on behalf of
SGS U.S. Testing Company Inc.

John Lomash
Branch Director

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PREPARATION AND CONDITIONING: The sample material was submitted in three pieces, 24" wide by 96" long, conforming to test chamber dimensions. 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 two foot intervals across the width of the test chamber.

Prior to testing, the specimen was placed in the conditioning room (maintained at $73.4 \pm 5^\circ$ F and a relative humidity of $50 \pm 5\%$) and allowed to reach moisture equilibrium.

SUMMARY OF ASTM E84 RESULTS: Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5.

<u>SAMPLE IDENTIFICATION</u>	<u>FLAME SPREAD</u>	<u>SMOKE DENSITY</u>
10 mm Lexan Thermoclear Sheet LTC2R10, copy up	5	175

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

<u>NFPA CLASS</u>	<u>UBC CLASS</u>	<u>FLAME SPREAD</u>
A	I	0 through 25
B	II	26 through 75
C	III	76 through 200

BUILDING CODES CITED:

1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 1994 Edition.
2. Uniform Building Code, 1994 Edition, Chapter 8, Interior Finishes, Sections 801-807.



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E 84 TEST DATA SHEET:

CLIENT: GE Plastics DATE: 3/5/01

SAMPLE: 10 mm Lexan Thermoclear Sheet, LTC2R10, copy side up

THICKNESS: 10 mm nominal

FLAME SPREAD:

IGNITION: 57 seconds

FLAME FRONT: 2.5 feet maximum

TIME TO MAXIMUM SPREAD: 9 minutes, 57 seconds

TEST DURATION: 10 minutes

CALCULATION: 8.73 X 0.515 = 4.49

SUMMARY: FLAME SPREAD: 5 SMOKE DENSITY: 175

OBSERVATIONS: Sample surface ignition occurred at 57 seconds. A maximum flame front advance of 2.5 feet was observed at 9 minutes, 57 seconds.



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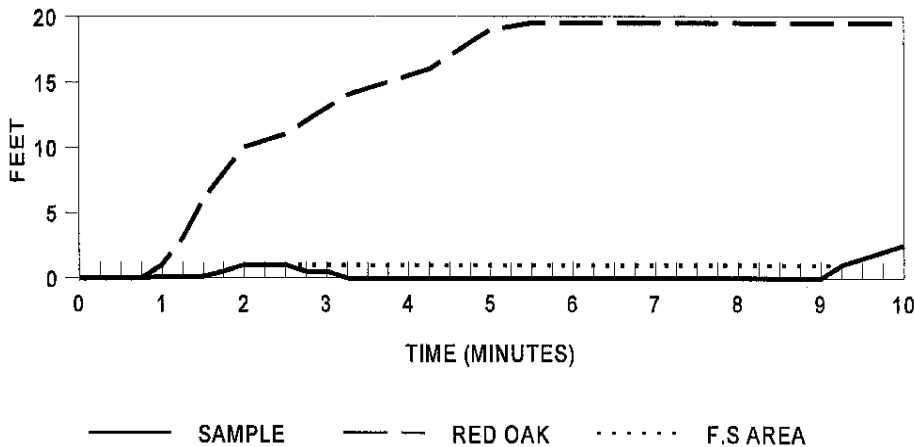
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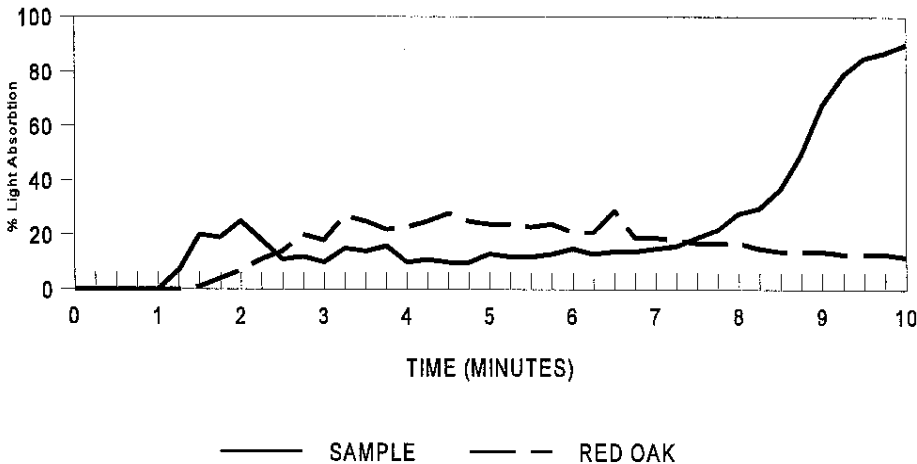
FLAME SPREAD AREA

LEXAN THERMOCLEAR SHEET, 10 MM



SMOKE DENSITY

LEXAN THERMOCLEAR SHEET, 10 MM



End of Report

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