

US-D-OPS-04-01-T



SGS U.S. Testing Company Inc.

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CLIENT: GE PLASTICS
One Plastics Avenue
Pittsfield, MA 01201
Dennis Furlano

Sundance Supply, LLC
888-775-6176

<http://www.sundancesupply.com>

Test Report No:	174769	Date:	February 27, 2003
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SAMPLE ID: The Client submitted and identified the following test material as Lexan Corrugated Sheet, 7271.

DATE OF RECEIPT: Entered into SGS USTC sample tracking system on January 15, 2003 as STN 35845.

TESTING PERIOD: February 18, 2003.

AUTHORIZATION: Client's Purchase Order No. P1935000.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-01, "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	90
For detailed results see page 3.		

Tested by

Brian Ortega
Brian Ortega
Test Technician

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

Greg Banasky
Greg Banasky
Supervisor Fire Technology

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CLIENT: GE PLASTICS

PREPARATION AND CONDITIONING: The sample material was submitted in six pieces, 24" wide by 48" 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 1/4" 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 ± 5° F and a relative humidity of 50 ± 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>
Lexan Corrugated Sheet, 7271	5	90

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:

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



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Page: 3 of 4**E 84 TEST DATA SHEET:**CLIENT: GE Plastics DATE: 2/18/03SAMPLE: Lexan Corrugated Sheet, 7271THICKNESS: 0.035" nominal

FLAME SPREAD:

IGNITION: 30 secondsFLAME FRONT: 1 foot maximumTIME TO MAXIMUM SPREAD: 3 minutes, 7 secondsTEST DURATION: 10 minutesCALCULATION: $8.34 \times 0.515 = 4.29$

SUMMARY: FLAME SPREAD: 5 SMOKE DENSITY: 90

OBSERVATIONS: Sample surface ignition occurred at 30 seconds. A maximum flame front advance of 1 foot was observed at 3 minutes, 7 seconds.

* Due to intense flaming, the test was terminated at 4 minutes, 31 seconds. The two Flame Spread Values reported reflect the Flame Spread at time of termination and the Flame Spread had the flame front advanced to 19.5 feet 1 second after time of test termination. Note: The laboratory plotted the smoke density value for the remaining 5 minutes, 29 seconds at 0% transmittance and derived a Smoke Density value of 465.

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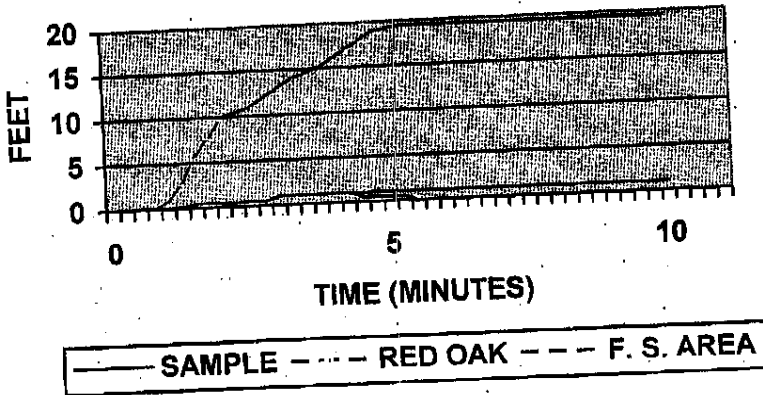


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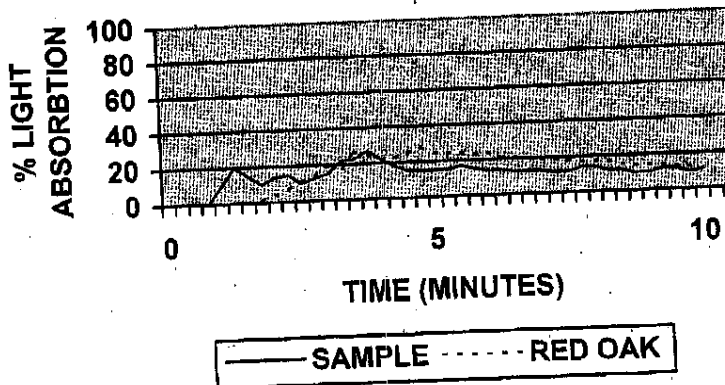
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FLAME SPREAD LEXAN CORRUGATED SHEET, 7271



SMOKE DEVELOPED LEXAN CORRUGATED SHEET, 7271



End of Report