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November 1, 2001  
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Joseph L. Phillips, General Manager  
Food Equipment



SGS U.S. Testing Company Inc.

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CLIENT: ININSYS, INC.

9905 Painter Avenue, Suite K  
Whittier, CA 90605  
Sam Kim

<b>Test Report No:</b>	<b>168178</b>	<b>Date:</b>	<b>May 21, 2002</b>
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**SAMPLE ID:** The Client submitted and identified the following test material as Thermoset Composite Ceiling Panels, #3.

**DATE OF RECEIPT:** Entered into SGS USTC sample tracking system on April 29, 2002 as STN 34751.

**TESTING PERIOD:** May 20, 2002.

**AUTHORIZATION:** Testing authorizes by Sam Kim.

**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.


<b>TEST RESULTS:</b>	<u>Flame Spread</u>	<u>Smoke Density</u>
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25

240

For detailed results see page 3.

Tested by

  
Brian Ortega  
Test Technician

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

  
Greg Banasky  
Supervisor Fire Technology

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**PREPARATION AND CONDITIONING:** The sample material was submitted in twelve pieces, 24" wide by 24" long. 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 ± 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>
Thermoset Composite Ceiling Panels, #3	25	240

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: Ininsys, Inc. DATE: 5/20/02SAMPLE: Thermoset Composite Ceiling Panels, #3THICKNESS: 0.070" nominal**FLAME SPREAD:**IGNITION: 2 minutes, 39 secondsFLAME FRONT: 8.5 feet maximumTIME TO MAXIMUM SPREAD: 7 minutes, 40 secondsTEST DURATION: 10 minutesCALCULATION:  $44.95 \times 0.515 = 23.15$ **SUMMARY: FLAME SPREAD: 25 SMOKE DENSITY: 240****OBSERVATIONS:** Sample surface ignition occurred at 2 minutes, 39 seconds. A maximum flame front advance of 8.5 feet was observed at 7 minutes, 40 seconds.



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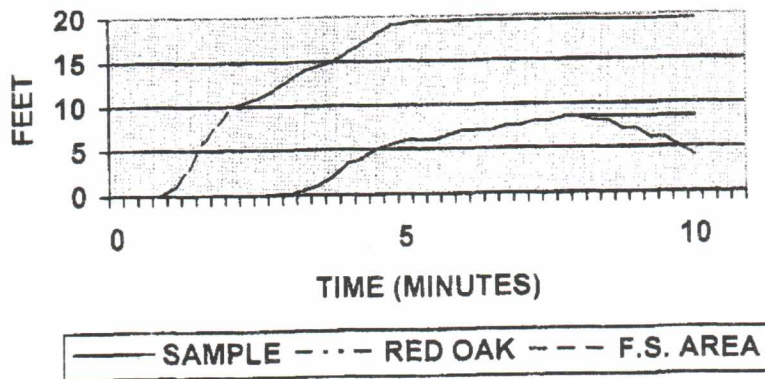
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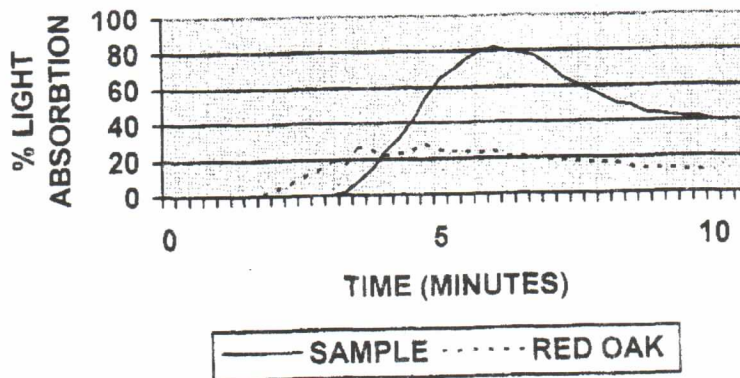
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### FLAME SPREAD THERMOSET COMPOSITE CEILING PANELS, #3



### SMOKE DEVELOPED THERMOSET COMPOSITE CEILING PANELS, #3



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End of Report