



SGS U.S. Testing Company Inc.

5555 Telegraph Road • Los Angeles, CA 90040 • Tel: 323-838-1600 • Fax: 323-722-8251

CLIENT: SIMPLEX STRIP DOORS, INC.

14500 Miller Avenue  
Fontana, CA 92336  
Jim Forschler

Test Report No:	157890-3	Date:	July 24, 2001
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**SAMPLE ID:** The Client submitted and identified the following test material as .040 thick Polyurethane Part #Polysim 509.

**DATE OF RECEIPT:** Entered into SGS USTC sample tracking system on June 27, 2001 as STN 33463.

**TESTING PERIOD:** July 18, 2001.

**AUTHORIZATION:** Client's Purchase Order No. 5867.

**TEST REQUESTED:** Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-00a, "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>
	10	180

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 was submitted in one piece, 24" wide by 24' long, conforming to 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>
.040 thick Polyurethane Part #Polysim 509	10	180

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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Page: 3 of 4**E 84 TEST DATA SHEET:**CLIENT: Simplex Strip Doors, Inc. DATE: 7/18/01SAMPLE: .040 thick Polyurethane Part #Polysim 509OVERALL THICKNESS: .040" nominal**FLAME SPREAD:**IGNITION: 30 secondsFLAME FRONT: 3.5 feet maximumTIME TO MAXIMUM SPREAD: 5 minutes, 50 secondsTEST DURATION: 10 minutesCALCULATION: 21.11 X 0.515 = 10.87**SUMMARY: FLAME SPREAD: 10 SMOKE DENSITY: 180****OBSERVATIONS:** Sample surface ignition occurred at 30 seconds. A maximum flame front advance 3.5 feet was observed at 5 minutes, 50 seconds.



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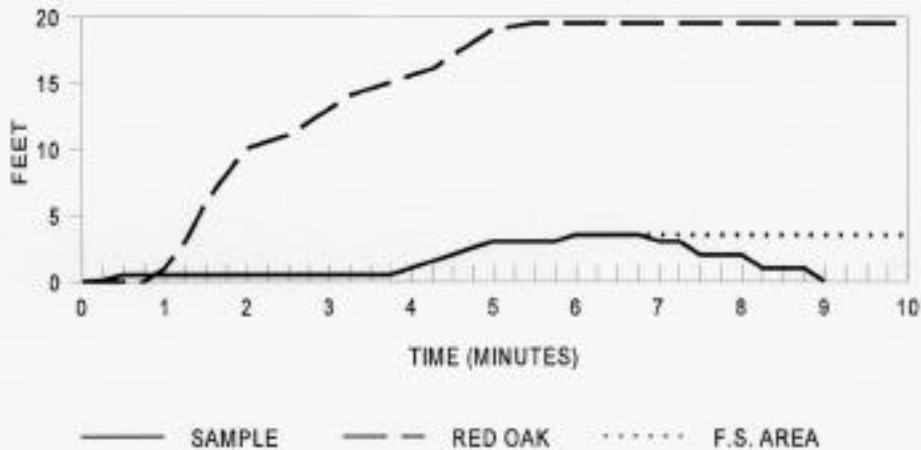
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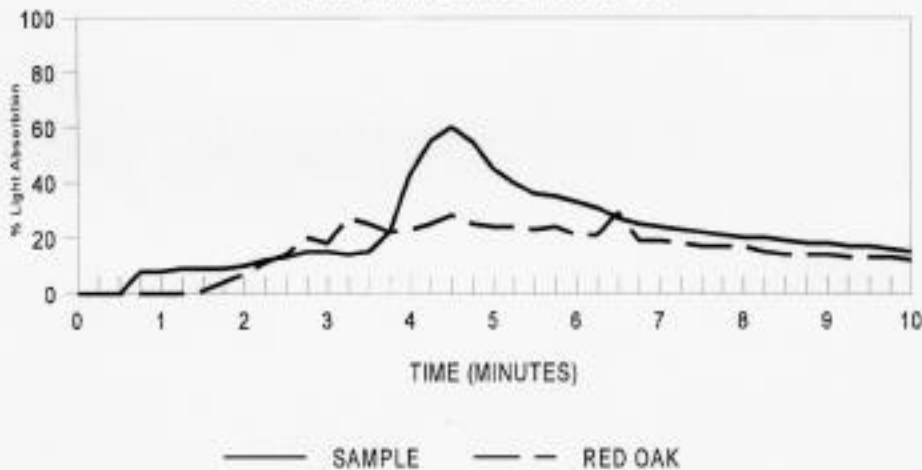
### FLAME SPREAD AREA

040 POLYURETHANE PART #POLYSIM 509



### SMOKE DENSITY

040 POLYURETHANE PART #POLYSIM 509



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End of Report