

SGS U.S. Testing Company Inc.

1341 North 108th East Avenue • Tulsa, OK 74116 • Tel: 918-437-8333 • Fax: 918-437-8487

CLIENT:

Derby Inc.

24350 State Road 23 South South Bend, IN 46614

Attn: Tim Shelby

Test Report No:

174138-2

Date:

January 31, 2003

SUBJECT:

Flammability Testing of Mattresses for Use in Public Buildings.

REFERENCE:

Letter

SAMPLE ID:

Sample identified as "Model 400C-1100C mattress Constructed of Densified

Polyester Batting With Integral Pillow" was received from the client on 1/22/03. The

sample was received in good condition.

TEST REQUESTED: The sample was tested in accordance with California Technical Bulletin 121. No

revisions to this report will be allowed after 90 days of the report date.

TEST DATE:

RESULTS:

Results can be found on the following pages.

CONCLUSION:

The mattress tested does comply with the requirements of California Technical Bulleting

SIGNED FOR AND ON BEHALF OF SGS U.S. TESTING COMPANY INC.

nmons ( Dept. Manager/Product Evaluation bk

Dale E. Holloway Tulsa Branch Director

Page 1 of 7

This report is issued by SGS U.S. Testing Company Inc. under its General Conditions for Testing Services, as printed on reverse side. SGS U.S. Testing's responsibility under this report is limited to proven negligence and will in no case be more than the amount of the testing fees. Except by special arrangement, samples are not retained by SGS U.S. Testing for more than 30 days. The results shown on this test report refer only to the sample(s) tested unless otherwise stated, under the conditions agreed upon. Anyone relying on this report should understand all of the details of the engagement. Neither the name, seals, marks nor insignia of SGS U.S. Testing may be used in any advertising or promotional materials without the prior written approval of SGS U.S. Testing. The test report cannot be reproduced, except in full, without prior written permission of SGS U.S. Testing Company Inc.

US-D-OPS-04-03-T



SGS U.S. Testing Company Inc.

Report No.: 174138-2

Derby Inc.

## PROCEDURE:

The sample and ignition source was conditioned before testing for 48 hours at 70°F  $\pm$  5°F and a relative humidity less than 55%.

The mattress was placed on a metal test frame, which was placed on an electronic scale inside a test room having dimensions of 10' X 12' with and 8' high ceiling. The mattress and frame were located on the wall opposite the doorway. The test was performed without bedding.

The ignition source was ten (10) double sheets of loosely wadded newspaper (dimensions,  $23 \times 28$  in. and a weight of  $18.5 \pm .5$  grams) placed in a metal container (dimensions: 10 in. x 12-1/2 in. x 9 in.). The ignition source was placed at the geometric center underneath the mattress. The mattress was adjusted so that the bottom surface of the mattress was  $3 \pm 1/4$  in. above the top of the ignition source.

After ignition, we monitored and recorded certain properties of the test procedure. These properties are weight change, carbon monoxide, and specified locations for temperature.

Temperature was measured directly over the specimen at 1 in, below the ceiling.

Photos and video were taken of the specimen during the providure. Sampling was marked discupling the taken of the specimen during the providure.

US-D-OPS-04-03-T



SGS U.S. Testing Company Inc. Report No.: 174138-2

Derby Inc.

RESULTS:

SAMPLE:

Model 400C-1100C mattress Constructed of Densified Polyester Batting With Integral Pillow

TEST DATE: 1/24/03

## DATA:

Measurement Type <sup>A</sup>	Initial Value	Maximum Value	Time Occurred	Maximum Change	Maximum Allowable Change	Pass / Fail
1.	67.0	135.0	0:01:35	68.0	500	Pass
2.	17.2	16.7	0:27:45	0.5	10.0	Pass
3.	3.8	408.4	0:17:30	428.1	1000	Pass

Total Test Time, (hr:min:sec): 0:27:45 Sample Self-Extinguished

<sup>A</sup> – References number values below (1 – 3)

## Descriptions Below-

- Ceiling Temperature, °F
- Weight, lbf.
- 3. Carbon Monoxide Concentration, ppm

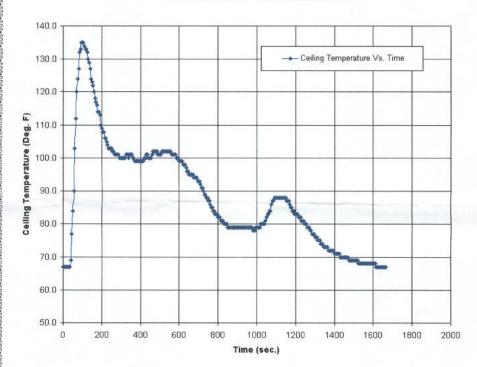


Report No.: 174138-2

Derby Inc.

PLOTS:

Ceiling Temperature Vs. Time
Client: Derby Inc. Sample ID: Model 400C-1100C Densified Polyester Batting with Integral Pillow
Procedure: CAL TB 121 Date: 1/31/03 12:45:17 PM



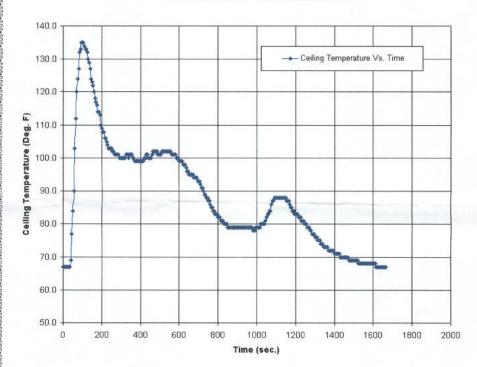


Report No.: 174138-2

Derby Inc.

PLOTS:

Ceiling Temperature Vs. Time
Client: Derby Inc. Sample ID: Model 400C-1100C Densified Polyester Batting with Integral Pillow
Procedure: CAL TB 121 Date: 1/31/03 12:45:17 PM



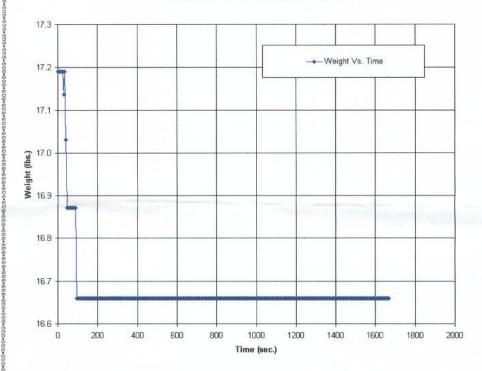


SGS U.S. Testing Company Inc.

Report No.: 174138-2

Derby Inc.

Weight Vs. Time
Client: Derby Inc. Sample ID: Model 400C-1100C Densified Polyester Batting with Integral Pillow
Procedure: CAL TB 121 Date: 1/31/03 12:45:17 PM



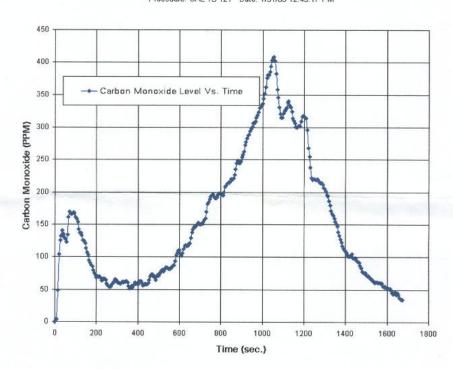
Page 5 of 7



Report No.: 174138-2

Derby Inc.

Carbon Monoxide Level Vs. Time
Client: Derby Inc. Sample ID: Model 400C-1100C Densified Polyester Batting with Integral Pillow
Procedure: CAL TB 121 Date: 1/31/03 12:45:17 PM





\$69\$66\$\$66\$\$65\$\$65\$56\$\$65\$56\$\$65\$56\$\$65\$\$66

Report No.: 174138-2

Derby Inc.

PHOTOS:

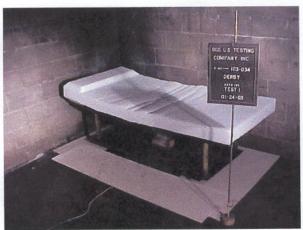


PHOTO 1. Mattress before test.

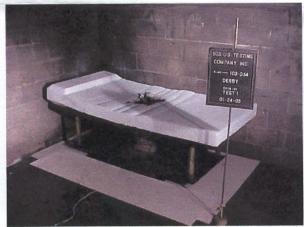


PHOTO 2. Mattress after all ignition had ceased.

\* \* \* \* \* \* \* \* END OF REPORT