



**16 CFR Part 1632.4 (1997)**  
**Flammability of Mattresses and Mattress Pads**  
**(FF 4-72, Amended)**

**TEST RESULTS**

**Client:** HoverTech International  
**Address:** 513 S. Clewell Street  
Bethlehem, PA 18015

**Received Date:** July 24, 2008 (The samples were received in good condition)  
**Test Date:** July 30, 2008  
**Report Date:** July 31, 2008

**Project No:** 3156024SAT-003  
**Sample Identification:** Single Patient Use HoverMatt

**Description**

**Model ID:** HM34SPU; **Prototype or Production Type:** Production; **Fabric Type:** Non-woven polypropylene fiber and nylon fabric; **Fabric Color:** White; **Dimensions of Sample:** 34" w X 78" h

**Sample Preparation:** Tested as received  
**Environmental Conditions:** 72°F and 65% r.h.  
**This Test Witnessed by:** None

**SUMMARY OF TEST PROCEDURE**

A total of six surfaces are needed to complete a test. Six single-sided mattresses or 3 double-sided mattresses are required per test. The mattresses are labeled surfaces 1 – 6. For this test, six test specimens were conditioned at 70°F and a relative humidity of 50%. These specimens were then placed in the test room and prepared for testing. One half of each mattress was covered with 100% cotton sheeting material as specified in the standard. Nine cigarettes are burned on each bare side (*bare surface test*) of each mattress and nine are burned on each covered side of each mattress with a second sheet covering the cigarettes and the bottom sheet (*two sheet test*). The cigarettes were left to burn until their full lengths have burned. If a mattress has three types of surfaces (*smooth, tape edge, quilted, or tufted areas*) three cigarettes are placed on each surface for both the bare surface test and two-sheet test. If only two surfaces are available (*tape edge and smooth surface*), five cigarettes are placed on the tape edge and four on the smooth surface. Smooth surface mattresses receive all nine cigarettes. 12 cigarettes are placed on mattresses that have 4 surfaces. Each surface receives 3 cigarettes.

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**TEST RESULTS**

**Test Data  
 Surfaces 1-3**

The cigarette number and a P for pass or an F for fail is recorded for each cigarette.

Surface 1	Type of surface						Number of Relights
Bare Surface Test	Smooth	1 P	2 P	3 P	4 P	5 P	-
	Smooth	6 P	7 P	8 P	9 P		-
Two Sheet Test	Smooth	1 P	2 P	3 P	4 P	5 P	1
	Smooth	6 P	7 P	8 P	9 P		-

Surface 2	Type of surface						Number of Relights
Bare Surface Test	Smooth	1 P	2 P	3 P	4 P	5 P	-
	Smooth	6 P	7 P	8 P	9 P		-
Two Sheet Test	Smooth	1 P	2 P	3 P	4 P	5 P	2
	Smooth	6 P	7 P	8 P	9 P		-

Surface 3	Type of surface						Number of Relights
Bare Surface Test	Smooth	1 P	2 P	3 P	4 P	5 P	-
	Smooth	6 P	7 P	8 P	9 P		-
Two Sheet Test	Smooth	1 P	2 P	3 P	4 P	5 P	1
	Smooth	6 P	7 P	8 P	9 P		-

P = Pass (char length < 2 inches)

F = Fail (char length > 2 inches)

### Test Data Surfaces 4-6

Surface 4	Type of surface						Number of Relights
Bare Surface Test	Smooth	1 P	2 P	3 P	4 P	5 P	-
	Smooth	6 P	7 P	8 P	9 P		-
Two Sheet Test	Smooth	1 P	2 P	3 P	4 P	5 P	-
	Smooth	6 P	7 P	8 P	9 P		-

Surface 5	Type of surface						Number of Relights
Bare Surface Test	Smooth	1 P	2 P	3 P	4 P	5 P	-
	Smooth	6 P	7 P	8 P	9 P		-
Two Sheet Test	Smooth	1 P	2 P	3 P	4 P	5 P	-
	Smooth	6 P	7 P	8 P	9 P		-

Surface 6	Type of surface						Number of Relights
Bare Surface Test	Smooth	1 P	2 P	3 P	4 P	5 P	-
	Smooth	6 P	7 P	8 P	9 P		-
Two Sheet Test	Smooth	1 P	2 P	3 P	4 P	5 P	1
	Smooth	6 P	7 P	8 P	9 P		-

P = Pass (char length < 2 inches)

F = Fail (char length > 2 inches)

**TEST CRITERIA:**

Individual cigarette test locations pass the test if the char length is not more than 2 inches in any direction from the nearest point of the cigarette.

**CONCLUSION:**


The maximum char length from the cigarette was 0.19-inches, which was seen on multiple covered surfaces. This maximum char length was measured at the end of the test from the top surface of the mattress.

Photographs of the mattresses are in Appendix A.

**THIS SPECIMEN PASSED THE 16 CFR 1632.4 TEST CRITERIA**

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This report contains a total of eight pages.

  
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July 31, 2008

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July 31, 2008