

## FLAMMABILITY TEST REPORT

Report No.: LEHTX00565302    Date Received: 20/01/11    Dates Tested: 24/01/11    Date Issued: 24/01/11

**Company Name & Address:** ALLERGY TECHNOLOGIES LLC  
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AMBLER  
PA 19002  
USA

**Contact Name:** RICHARD BUSHELL

### Sample Details

Customers description: Mattress Liner for Dust Mite Control  
Style no.: Not stated  
Colour: White  
Supplier: Not stated  
End use: Not stated  
Fibre composition: Not stated  
Retailer: Not stated  
Sample description: White coloured Mattress Liner for Dust Mite Control

Test Method	Pre Treatment	Requirement	Result
BS EN 597-1:1995 (Smouldering Cigarette)	None	As BS EN 597-1:1995 (Smouldering Cigarette)	NI (PASS)
BS EN 597-2: 1995 (Match Flame Equivalent)		As BS EN 597-2: 1995 (Match Flame Equivalent)	NI (PASS)

**Please note:** The fabric was tested as a composite over a combustion modified foam block (RX25140) at the request of the customer, the foam was enveloped in the fabric with tension being maintained using pins. The results of this test are only intended to provide an indication to the flammability performance of the fabric.

To gain full compliance with this standard the test specimen should be representative of the components and make-up of the finished mattress, mattress pad or upholstered bed base.



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(Chemical Technologist)

CAROLE SPOWART  
(Flammability Technician)

ANDREW WHITE  
(Quality Manager)

SIMON CHEE  
(Analytical Lab Manager)

## FLAMMABILITY TEST REPORT

### Test Specification

Test method BS EN 597-1: 1995 and BS EN 597-2: 1995  
Criterion of ignition: BS EN 597-1: 1995: Calibrated Senior Service cigarette.  
BS EN 597-2: 1995: Butane Gas flowing at  $45\pm 2$ ml/min @ 25°C for  $15\pm 1$  seconds

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### Pre-treatment / Durability procedure

None

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### Conditioning

Prior to testing: At least 16 hours in an atmosphere having a temperature of  $23\pm 2$ °C and a relative humidity of  $50\pm 5$ %  
At time of testing: Temperature between 15°C & 30°C. Relative humidity between 15% & 80%

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### Test Results (Top of mattress)

#### BS EN 597-1: 1995 Smouldering cigarette

Test number / position	1 (Upper surface of mattress)	2 (Upper surface of mattress)				
<b>Criterion of ignition</b>						
<b>Smouldering Criteria</b>						
Unsafe escalating combustion	No	No				
Test assembly consumed	No	No				
Smoulders through thickness	No	No				
Smoulders more than 1 hour	No	No				
More than 50mm from source	No	No				
<b>Flaming criteria</b>						
Occurrence of flames	No	No				
<b>Comments</b>						
Flaming ceased	-	-				
Sample glowing ceased	-	-				
Smoke ceased	16 Minutes 5 Seconds	16 Minutes 31 Seconds				
Extent of damage (mm) Width / Length	17 / 68	17 / 69				
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>	<b>Non Ignition</b>				
<i>The above test results relate only to the ignitability of the combination of the materials under the particular conditions of test: they are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use.</i>						

### Test Results (Cont.)

#### BS EN 597-2:1995 (Match Equivalent).

Test number / position	1 (Upper surface of mattress)	2 (Upper surface of mattress)				
<b>Criterion of ignition</b>						
<b>Smouldering Criteria</b>						
Unsafe escalating combustion	No	No				
Test assembly consumed	No	No				
Smoulders through thickness	No	No				
Smoulders more than 1 hour	No	No				
More than 50mm from source	No	No				
<b>Flaming criteria</b>						
Test assembly consumed	No	No				
Unsafe escalating combustion	No	No				
Burning through thickness or to the extremities	No	No				
Flaming for more than 120 seconds	No	No				
<b>Comments</b>						
Flaming ceased	0 Seconds	0 Seconds				
Sample glow ceased	-	-				
Smoke ceased	6 Seconds	4 Seconds				
Extent of damage (mm) Width / Length	17 / 25	13 / 20				
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>	<b>Non Ignition</b>				
<i>The above test results relate only to the ignitability of the combination of the materials under the particular conditions of test: they are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use.</i>						