

LOW AH CHONG AND COMPANY
20 TUAS VIEW SQUARE SINGAPORE (637611)

Sample Description : 12" MATTRESS
 Client Reference Information : 39*75*12IN, 54*75*12IN, 60*80*12IN, 76*80*12IN
 Buyer : OWLLIGHT PTE. LTD.
 Supplier : SUNHALL INVESTMENT LIMITED

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : SDFS2411007329FF
 Sample Receiving Date : Nov 04, 2024
 Test Performing Date : Nov 05, 2024 to Nov 22, 2024
 Test Performed : Selected test(s) as requested by applicant

Test Result Summary

| No. | Test(s) Requested | Result(s) | Comments |
|--|---|-----------|----------------|
| 1 | 16 CFR Part 1633-Standard for the flammability (open flame) of Mattress sets. | PASS | Prototype Test |
| 2 | 16 CFR Part 1632—Standard for the Flammability of Mattresses and Mattress Pads to Combustion Which May Result from A Smoldering Cigarette | PASS | / |
| For further details, please refer to the following page(s) | | | |

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

Marco Leung

Marco Leung
Authorized Signatory

Scan to see the report



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Verification:
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Sample Information

The following data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. results apply to the sample as received:

- Model Name : Owllight
- Prototype Identification : WS-SG-007
- Insulation : FR Thread Cloth
- Construction Type : Knitted Fabric +FR Thread Cloth + PU Foam + Anti Slip Fabric
- Foam Padding : Gel Memory foam+PU Foam
- Barrier / Interliner : FR Thread Cloth
- Overall Size : (39*75*12)IN
- Mattress Ticking : Knitted Fabric
- Foundation : Without Foundation

Test 1

Test Conducted:

16 CFR Part 1633 Standard for the flammability (open flame) of mattress set.

Conditioning

Prior to testing, the sample was conditioned at 65°F ~77°F and a relative humidity less 55% for at least 48 hours.

At time of testing: Temperature greater than 59 °F and less than 80.6 °F, and a relative humidity less than 75%.

Test Procedure and Results

PROCEDURE:

The mattress was placed on a metal test frame and catch surface under the center of an open hood. The open hood and open calorimeter test room were configured in accordance with open calorimeter layout Option A as specified in 16 CFR Part 1633.

The ignition source was the NIST Dual Burner System constructed of stainless steel tubing. The fuel used was commercial propane delivered at a rate of 12.9 l/min to the top burner for a total time of 70 seconds and a rate of 6.6 l/min to the side burner for a total time of 50 seconds.

After ignition of the burner, we monitored recorded certain properties of the test procedure. These properties are Heat Release Rate and Total heat release.

Photos and video were taken of the specimen during the procedure. Please reference PHOTOS 1 through 2 for photos of representative samples before and after testing to this standard. Sampling was monitored throughout the test at a rate of 1 second. Heat Release equipment meets and exceeds requirements by ASTM E1590 for accuracy.

The test was conducted by Donnie Huang at the following address:
 SGS-CSTC Standards Technical Services Co., Ltd Shunde Branch
 1st Floor, Building 1 of European Industrial Park, No.1 Shunhenan Road, Wusha Section, Daliang Town, Shunde of Foshan, Guangdong Province, China (CPSC Identification Number:1621)



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RESULTS:

Specimen 1:

Test Date: Nov.21, 2024

Data:

| <u>Measurement Type</u> | <u>Maximum Value</u> | <u>Time Occurred</u> | <u>Allowed Value</u> | <u>Pass / Fail</u> |
|---|----------------------|----------------------|----------------------|--------------------|
| Heat Release Rate (kW) | 40.0 | 00:00:53 | 200 | PASS |
| Total Heat Release – First 10 Min (MJ) | 5.1 | --- | 15.0 | PASS |
| Total heat release (Entire Test, MJ) | 10.4 | | | |
| Test duration | [√] 30 minutes | | | |
| Please reference Figure 1 and 2 for graphical representation of Heat Release Rate and Total Heat Release. | | | | |

OBSERVATIONS:

- 09:00 – Specimen was removed from conditioning room.
- 09:05 – Test was started.
- 09:07 – After the ignition source extinguished, the specimen was ignited and flame was small and spread on the side and upper surface.
- 09:35 – Flame was extinguished by operator and the test was stopped.

GRAPHICAL RESULTS:

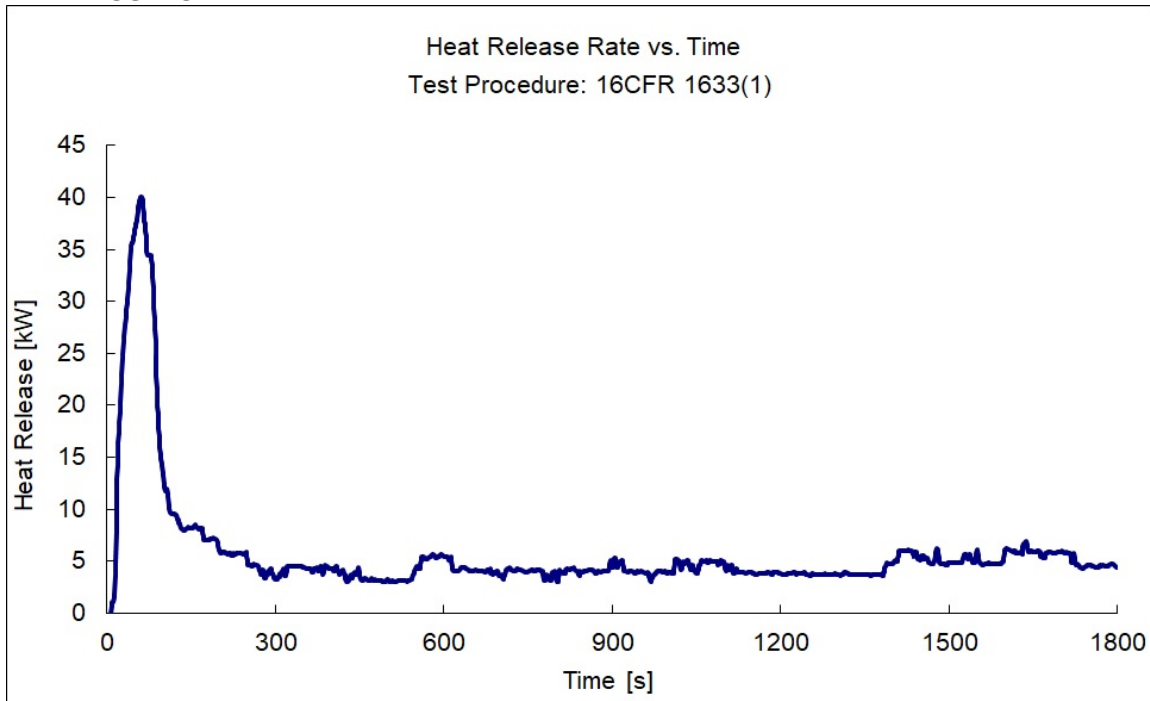


Figure 1. Heat Release Rate vs. Time Graph



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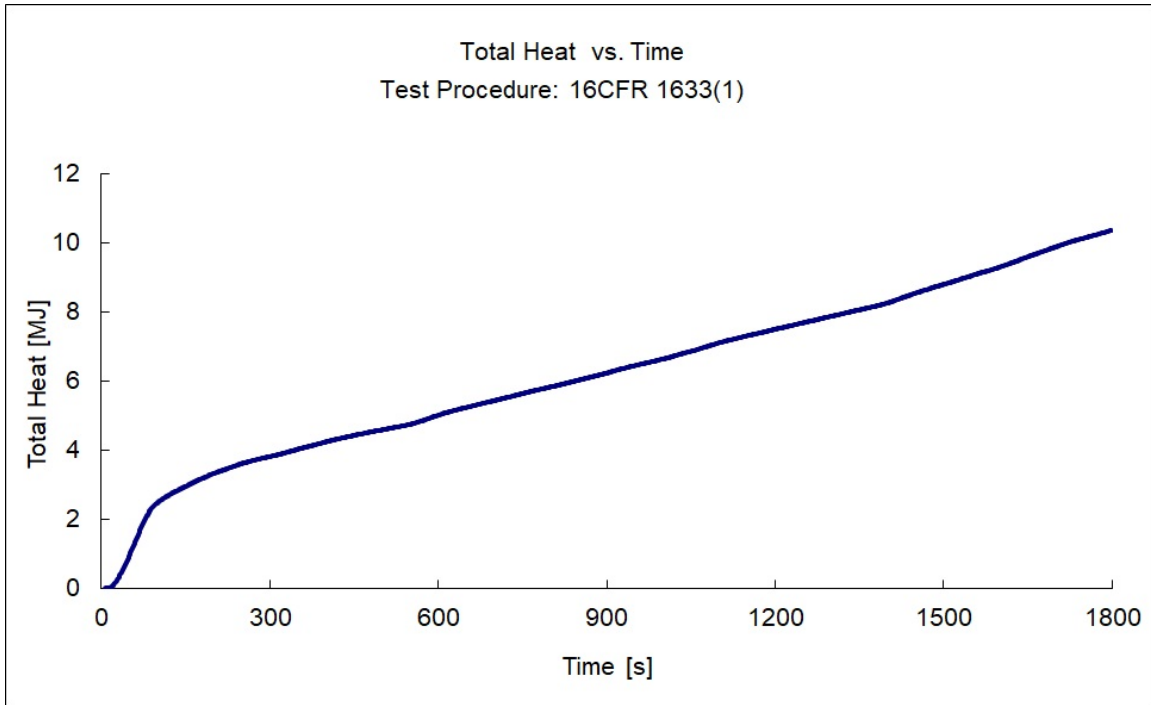


Figure 2. Total Heat Release vs. Time Graph

Specimen 2:

Test Date: Nov.21, 2024

Data:

| Measurement Type | Maximum Value | Time Occurred | Allowed Value | Pass / Fail |
|---|------------------|---------------|---------------|-------------|
| Heat Release Rate (kW) | 39.5 | 00:00:50 | 200 | PASS |
| Total Heat Release – First 10 Min (MJ) | 4.2 | --- | 15.0 | PASS |
| Total heat release (Entire Test, MJ) | 7.4 | | | |
| Test duration | [√] 30 minutes | | | |
| Please reference Figure 3 and 4 for graphical representation of Heat Release Rate and Total Heat Release. | | | | |

OBSERVATIONS:

- 10:00 – Specimen was removed from conditioning room.
- 10:05 – Test was started.
- 10:07 – After the ignition source extinguished, the specimen was ignited and flame was small and spread on the side and upper surface.
- 10:35 – Flame was extinguished by operator and the test was stopped.



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GRAPHICAL RESULTS:

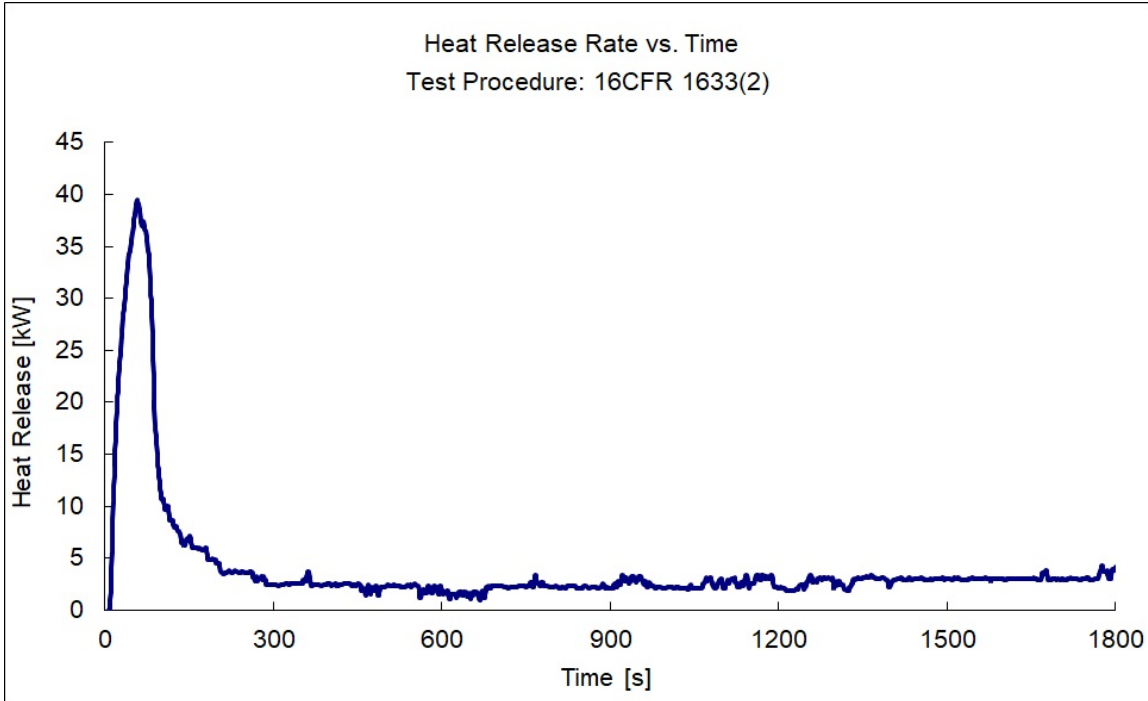


Figure 3. Heat Release Rate vs. Time Graph

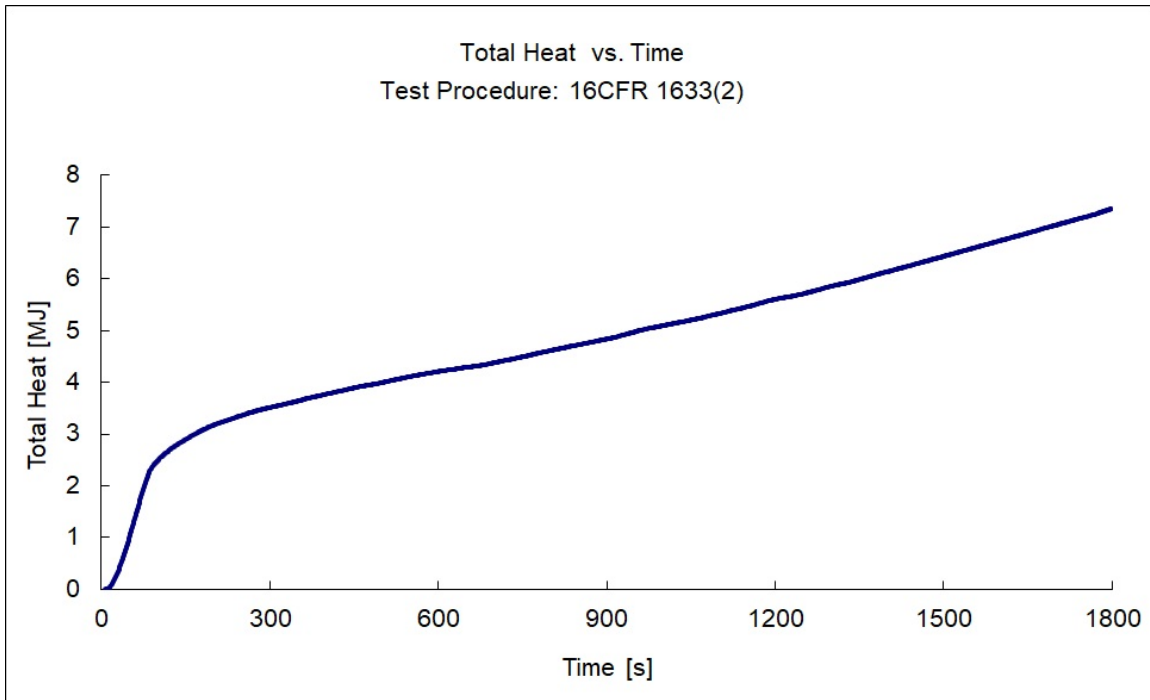


Figure 4. Total Heat Release vs. Time Graph



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Specimen 3:

Test Date: Nov.21, 2024

Data:

| <u>Measurement Type</u> | <u>Maximum Value</u> | <u>Time Occurred</u> | <u>Allowed Value</u> | <u>Pass / Fail</u> |
|---|----------------------|----------------------|----------------------|--------------------|
| Heat Release Rate (kW) | 40.5 | 00:00:49 | 200 | PASS |
| Total Heat Release – First 10 Min (MJ) | 4.5 | --- | 15.0 | PASS |
| Total heat release (Entire Test, MJ) | 8.9 | | | |
| Test duration | [√] 30 minutes | | | |
| Please reference Figure 5 and 6 for graphical representation of Heat Release Rate and Total Heat Release. | | | | |

OBSERVATIONS:

- 11:00 – Specimen was removed from conditioning room.
- 11:05 – Test was started.
- 11:07 – After the ignition source extinguished, the specimen was ignited and flame was small and spread on the side and upper surface.
- 11:35 – Flame was extinguished by operator and the test was stopped.

GRAPHICAL RESULTS:

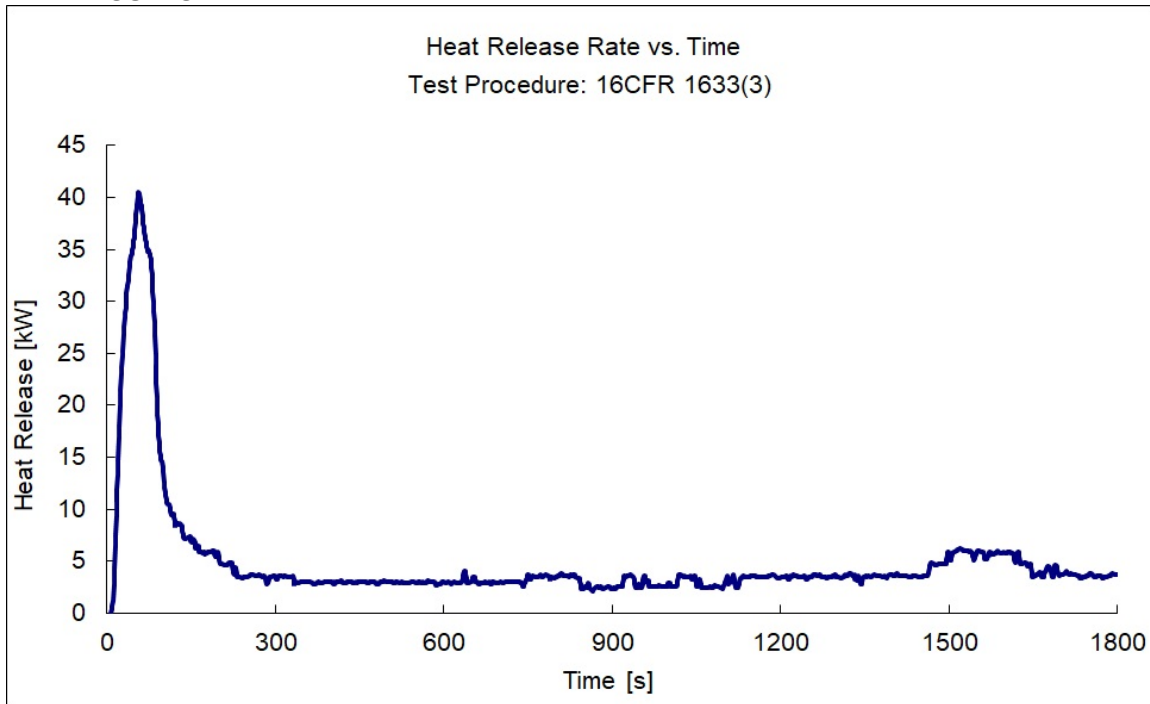


Figure 5. Heat Release Rate vs. Time Graph



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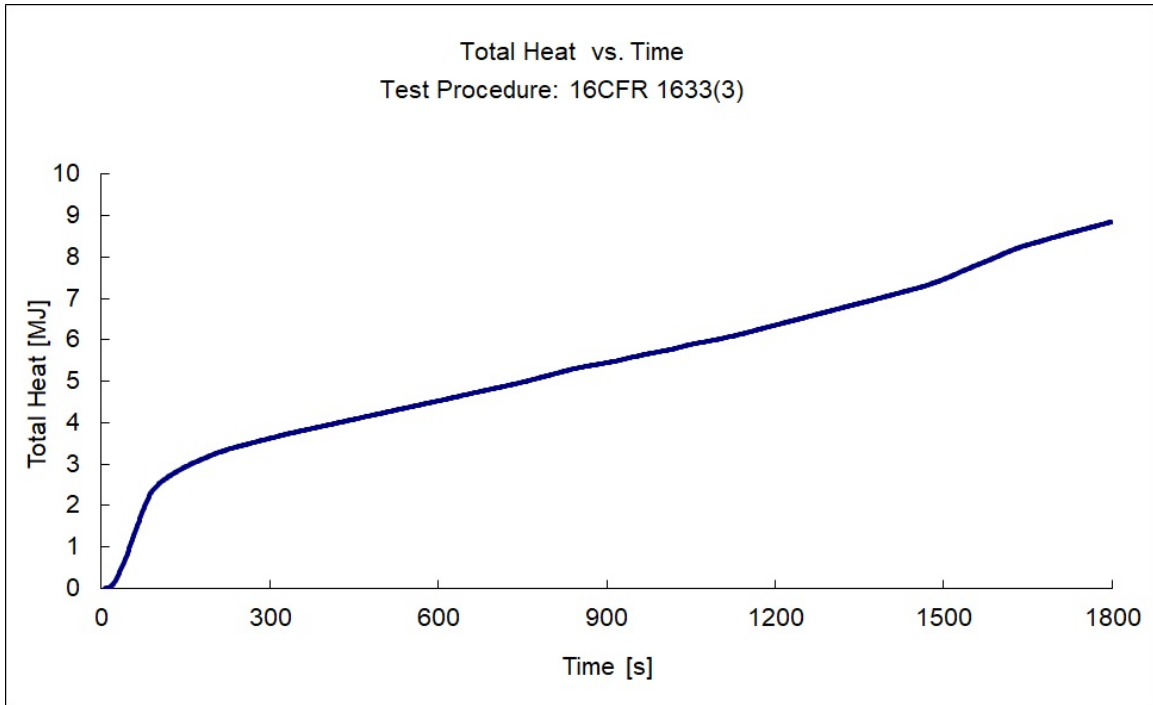


Figure 6. Total Heat Release vs. Time Graph



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PHOTOS:

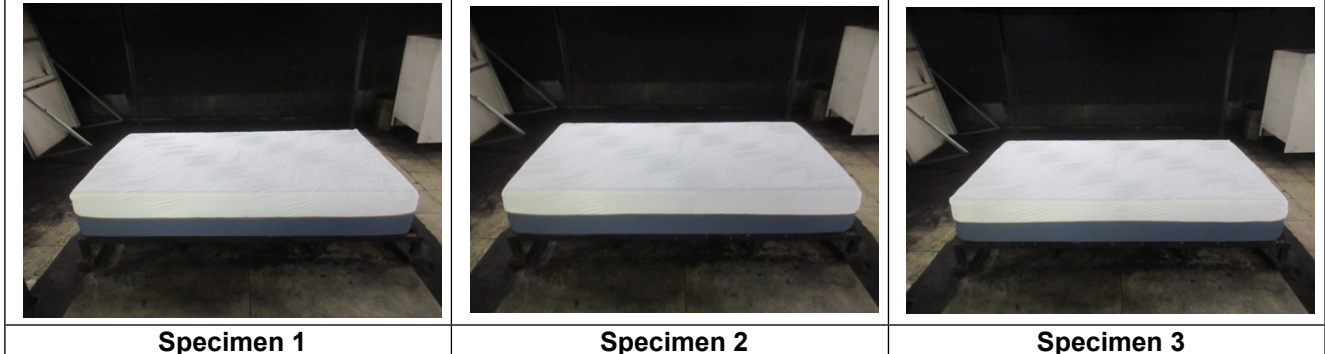


PHOTO 1. Mattress Before Testing

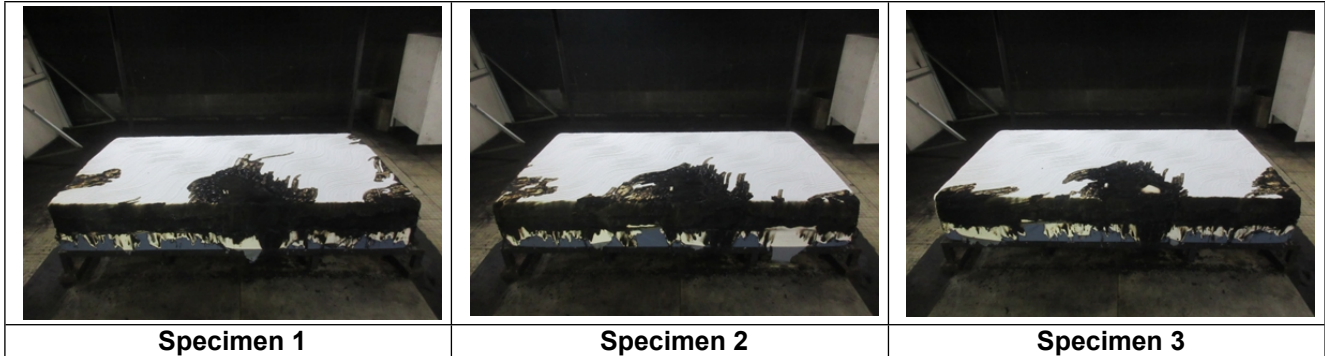


PHOTO 2. Mattress After Testing

Remark: For testing details, please refer to the enclosed video.



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Test 2

Test Conducted:

16 CFR Part 1632—Standard for the Flammability of Mattresses and Mattress Pads to Combustion Which May Result from A Smoldering Cigarette

I. Test Condition

| Condition | | Requirement | Actual |
|----------------|-------------------|--------------|-------------------|
| Precondition | Temperature | ≥65°F (18°C) | (74±3)°F (23±2)°C |
| | Relative humidity | ≤55% | (50±5)% |
| | Duration | ≥48h | 48h |
| Test condition | Temperature | ≥65°F (18°C) | (74±3)°F (23±2)°C |
| | Relative humidity | ≤55% | (50±5)% |

II. Requirements:

1. Individual cigarette requirement:

- a) No obvious flaming combustion occurs.
 - b) The char length shall not exceed 2 inches in any direction from the nearest point of the cigarette.
2. If one or more of the cigarette location fail to meet the requirement, the mattress or mattress pad fail the test.

III. Test Results:

Flammability of Mattresses

16 CFR Part 1632.4 (FF4-72, Amended)

| Surface 1 | Number of Cigarettes | | | | | No. of Relights |
|------------------|-----------------------------|---|---|---|---|------------------------|
| | 1 | 2 | 3 | 4 | 5 | |
| Bare | 1 | 2 | 3 | 4 | 5 | |
| Smooth | P | P | P | P | - | 0 |
| Tape Edge | P | P | P | P | P | 0 |
| Quilted | - | - | - | - | - | - |
| Tufted Area | - | - | - | - | - | - |
| Sheeted | | | | | | |
| Smooth | P | P | P | P | - | 0 |
| Tape Edge | P | P | P | P | P | 0 |
| Quilted | - | - | - | - | - | - |
| Tufted Area | - | - | - | - | - | - |
| Surface 2 | Number of Cigarettes | | | | | No. of Relights |
| Bare | 1 | 2 | 3 | 4 | 5 | |
| Smooth | P | P | P | P | - | 0 |
| Tape Edge | P | P | P | P | P | 0 |
| Quilted | - | - | - | - | - | - |
| Tufted Area | - | - | - | - | - | - |
| Sheeted | | | | | | |
| Smooth | P | P | P | P | - | 0 |
| Tape Edge | P | P | P | P | P | 0 |
| Quilted | - | - | - | - | - | - |
| Tufted Area | - | - | - | - | - | - |



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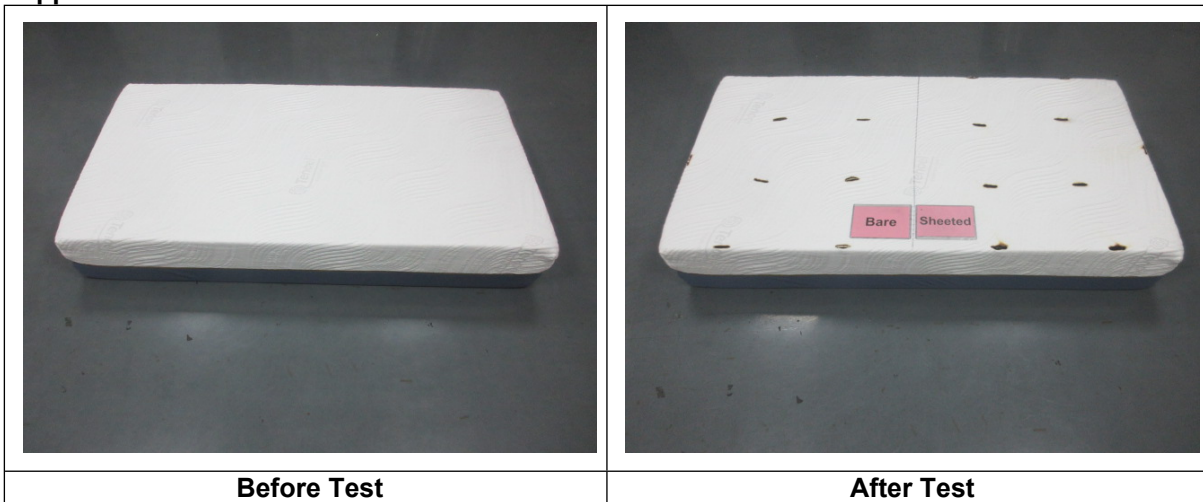
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| Code Description: | |
|-------------------|--|
| P: | Pass, Cigarette burned to full length |
| R: | Pass, Cigarette self-extinguished, replaced with a fresh cigarette which burned to full length or self-extinguished. |
| F: | Failure |

Conclusion: PASS

Photo Appendix:



Remark: According to client's statements, the tested Sample Size 39*75*12IN is identical to the Sample Size as stated in "Client Reference Information" column on the first page.

End of Report



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