



Test Report



中国认可
国际互认
检测
TESTING
CNAS L3428

Date :2017-09-04

Page 1 of 7

No. : DT17080470

Applicant (QZH005) : SHENZHEN HENGANG INDUSTRIES CO., LTD
HANGBEI INDUSTRIAL AREA,AILIAN, LONGGANG
DISTRICT,SHENZHEN CITY, GUANGDONG.P.C.CHINA 518116

Buyer : Sunrise Success Inc.
14895 Potpmac Branch,Dr Woodbridge ,Va 22191

Description of Sample(s) : Three (3) pieces of submitted sample(s) said to be:
8 inch latex and innerspring mattress
Style No.: SR-001SPM
Composition: Knitted Fabric Cover,With Innerspring,Latex
(See the attached photo)
Country of Origin: CHINA
Country of Destination: USA

Date sample(s) Received : 2017-08-29

Date Tested : 2017-08-29 to 2017-09-01

Investigation(s) Requested : Selected test(s) as detailed herein.

Conclusion(s) : The submitted sample(s) **complied** with the acceptance criteria of CFR
Title 16 Part 1633: March 15, 2006(Revised as of January 1, 2010).



Zhang Ke Yuan, Kent
Authorized Signatory
Textiles and Materials Department
For and on behalf of
STC (Dongguan) Company Limited.

STC (Dongguan) Company Limited

68 Fumin Nan Road, Dalang, Dongguan, Guangdong, China. Zip Code: 523770

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Test Report

Date :2017-09-04

Page 2 of 7

No. : DT17080470

TEST RESULT(S):

CFR Title 16 Part 1633 – Standard for the Flammability (Open Flame) of Mattress Sets, March 15, 2006 (Effective compliance date July 1, 2007) (Revised as of January 1, 2010)

Test Category Requested: Qualified Prototype (3 mattress sets)

Note: As defined by CFR Title 16 Part 1633, a “mattress set” can either be a mattress without a foundation or a mattress with a foundation. The sale of mattresses tested without foundations might be limited to that configuration.

Test Item Submitted: Mattress without Foundation

<u>Conditions:</u>	<u>Requirement</u>	<u>Actual</u>
Temperature:	Greater than 59°F Less than 80.6 °F	78.8°F
Relative Humidity:	Less than 75%	65%
Time lag between conditioning room & test start:	Within 20 minutes	10 minutes

Procedure:

The sample was conditioned before testing for at least 48 hours at greater than 65°F and less than 77 °F and a relative humidity less than 55%.

The mattress was placed on a metal test frame 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 room is configured in accordance with Test Room Layout Option B as specified in 16 CFR 1633.

The ignition source was the NIST Dual Burner System constructed of stainless steel tubing in accordance with the Section 6 Ignition Source and Figure 7. 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, Total Heat and ceiling temperature directly over the specimen at 4” below the ceiling.

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Test Report

Date :2017-09-04

Page 3 of 7

No. : DT17080470

TEST RESULT(S):

<u>Test criteria</u>			<u>Result(s)</u>		
			<u>Set #1</u>	<u>Set #2</u>	<u>Set #3</u>
1.	(a) Peak rate of Heat Release	(kW)	36.0	33.6	32.2
	(b) Time at which Peak Rate of Heat Release occurred	(seconds)	75	70	72
2.	Total Heat Release at 10 minutes (or test end, if sooner than 10 minutes)	(MJ)	2.8	2.1	2.2
TEST END.		(mm:ss)	30:00	30:00	30:00
		(code)	4	4	4
Total Test Time, (hr:min:sec): 00:30:00 for Set #1, 00:30:00 for Set #2, 00:30:00 for Set #3.					

Code :

1. All burning of specimen had ceased.
2. Extinguished by technician after heat release value had peaked & was declining.
3. Extinguished by technician when escalating combustion was noted.
4. Maximum test period (30 minutes).
5. Item(s) under test substantially consumed.

Acceptance Criteria: For each mattress set:

- 1.The peak rate of heat release shall not exceed 200 kilowatts (kW) at any time within the 30 minutes test.
- 2.The total heat release shall not exceed 15 megajoules (MJ) for the first 10 minutes of the test.

Remark: None.

Abbreviations which may be used: NT = Not tested, as noncompliance was found with a previous set.
NA = Not available
NR = Not required to be tested

Classification System:

Qualified Prototype: Three mattress sets must demonstrate compliance with the Acceptance Criteria.

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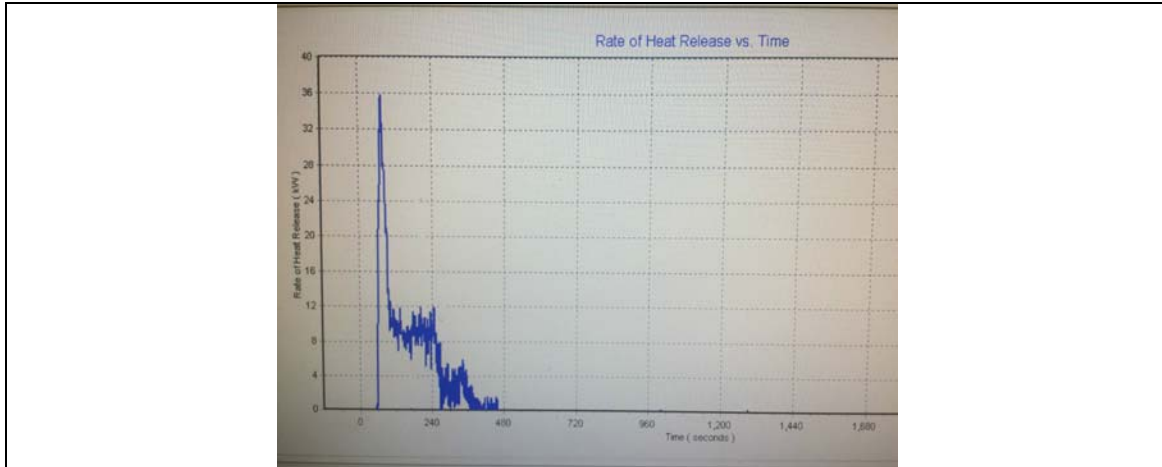
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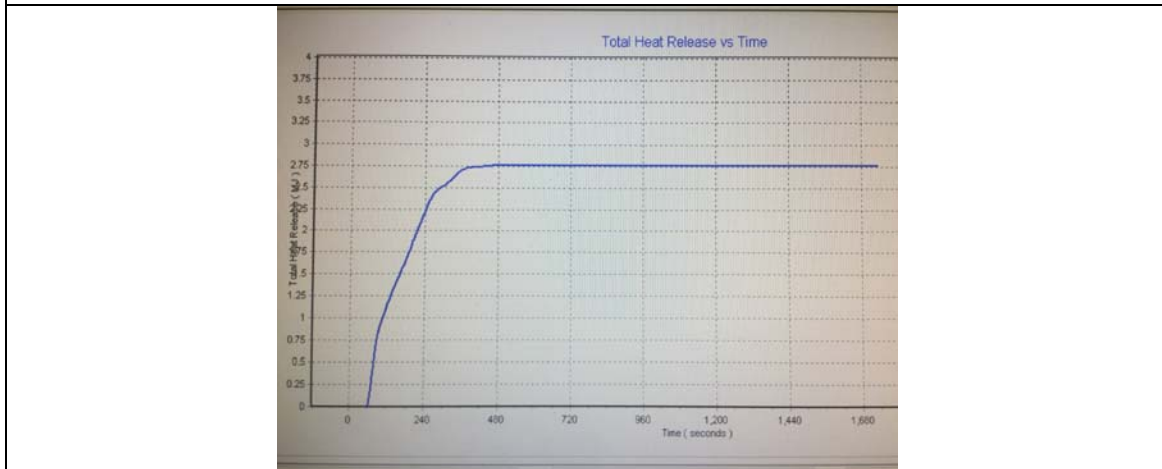
Page 4 of 7

No. : DT17080470

TEST RESULT(S):



Set #1



Set #1

STC (Dongguan) Company Limited

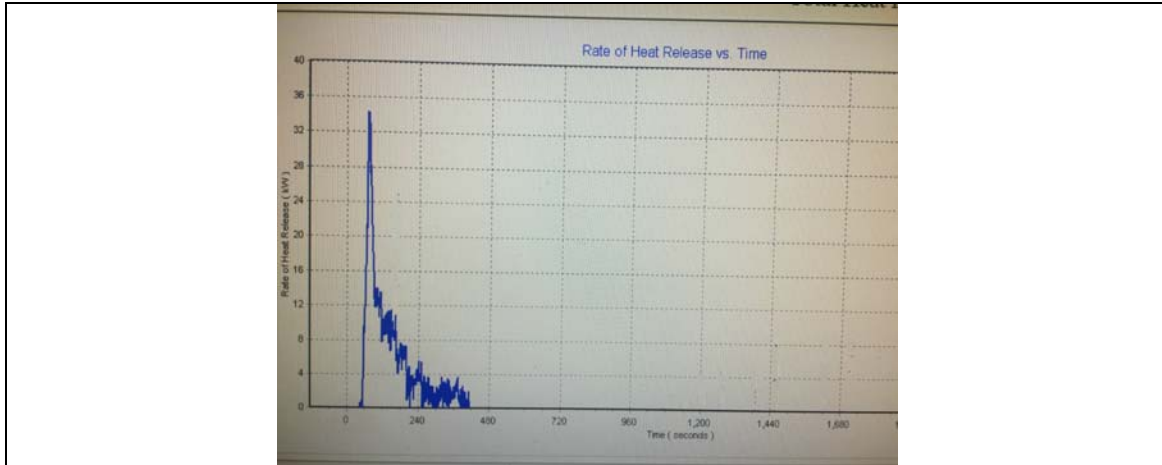
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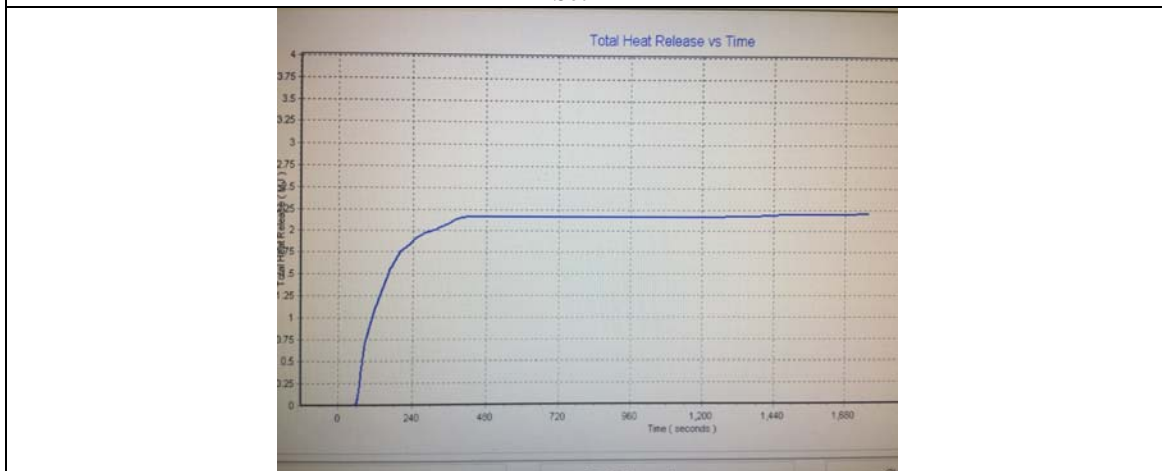
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TEST RESULT(S):



Set #2



Set #2

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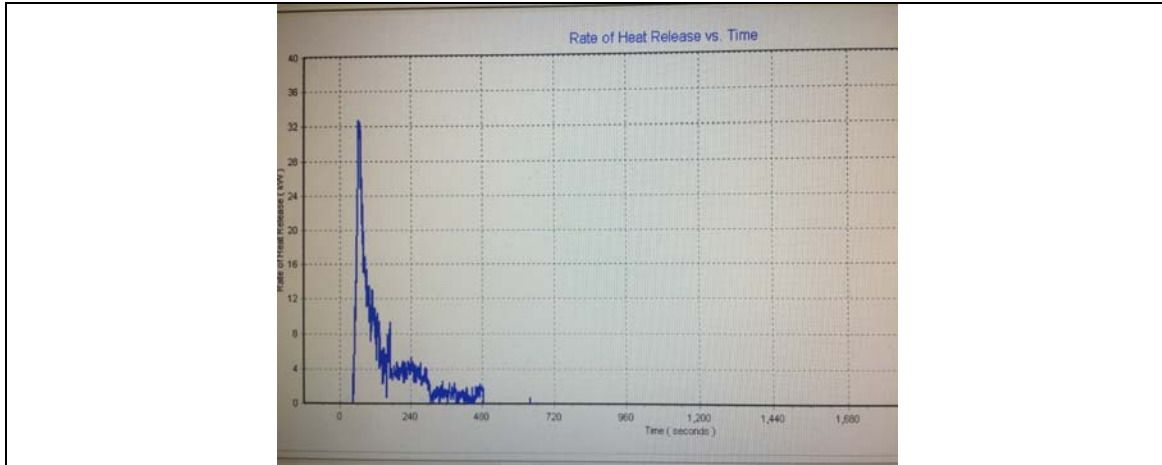
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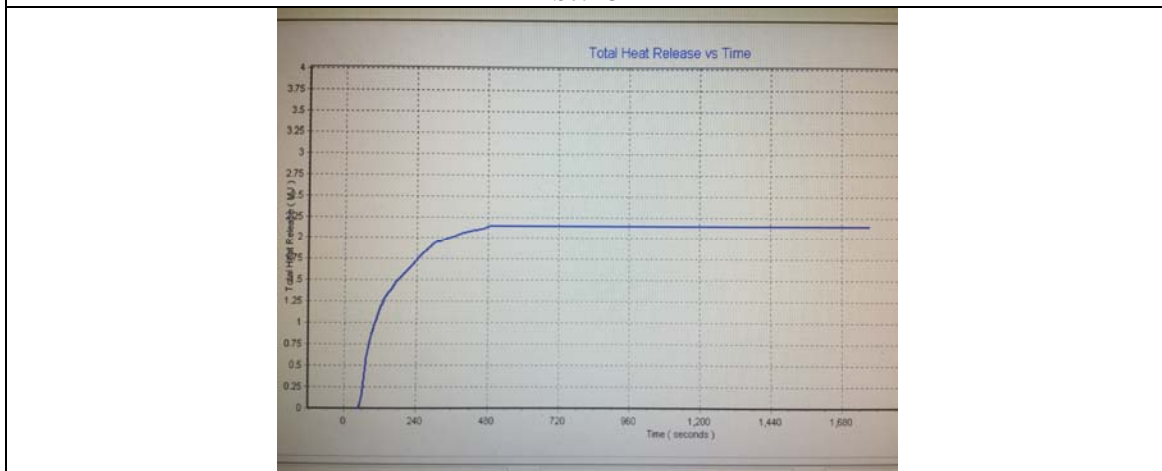
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TEST RESULT(S):



Set #3



Set #3

***** End of Test Report *****

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Appendix for Photos of the Submitted Sample(s)

 <p>DT17080470</p>	
Sample 1	Test 1
	
Sample 2	Test 2
	
Sample 3	Test 3

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