CPSC Accredited Testing Laboratory Identification number: 1624

中国认可
国际互认
检测
TESTING
CNAS L0706

Test Report

Date : 2024-07-04
No. : CT24060064

Applicant	:	FANG HUA POLYURETHANE MATERIAL (CAMBODIA) CO., LTD.
Address	:	D61-33 Sihanoukville Special Economy Zone, No.4 National Road 212km, Prey Nob District, Sihanoukville, Cambodia
Description of Samples	:	three (3) group of submitted samples said to be: MATTRESS
Date Samples Received	:	2024-07-01
Date Tested	:	2024-07-01~2024-07-03
Conclusion(s)	:	The submitted sample(s) **complied** with the requirements of CFR Title 16 Part 1633.

Sam Xu
Authorized Signator

常州标检产品质量检测有限公司 检验检测专用章

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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 set)

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

Conditions:	Requirement	Actual
Temperature:	Greater than 59ºF Less than 80.6 ºF	68.0ºF
Relative Humidity:	Less than 75%	53%
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 65ºF and less than 77 ºF and a relative humidity less than 55%.

The mattress and frame were located on the wall opposite the doorway. The room is configured in accordance with Test Room Layout Option A as specified in 16 CFR 1633.

The ignition source was the NIST Dual Burner System constructed of stainless steel tubing in accordance . 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

TEST RESULT(S):

Sample Set S1:

Measurement Type	Initial Value	Maximum Value	Time Occurred (min: sec)	Allowed Value	Allowed Value
Heat Release Rate (kW)	0	32.1	00:42	200	Pass
Total Heat Release – First 10 Min (MJ)	1.8			15	Pass

Total Test Time, (min:sec):	30:00
Total Heat Release (Entire Test, MJ)	1.8
Please reference Figure 1 and 2 for graphical representation of the Heat Release Rate and Total Heat Release.	

OBSERVATIONS:

·09:20 – Sample was removed from conditioning room.
·09:30 – Test was started.
·09:43 – All burning of specimen had ceased .
·10:00 – Test was stopped.

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TEST RESULT(S):

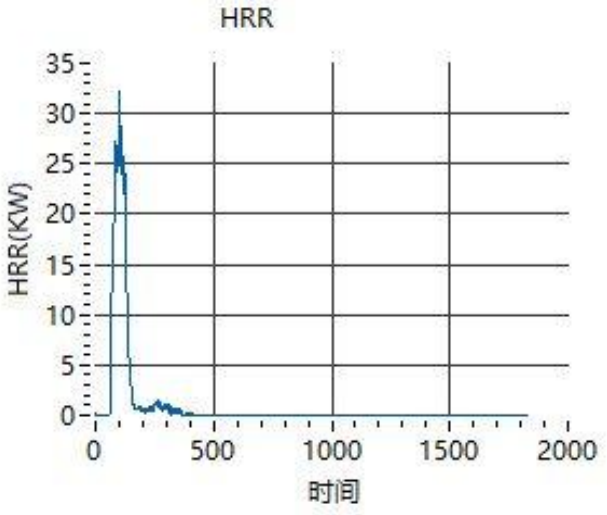


Figure 1 Set S1

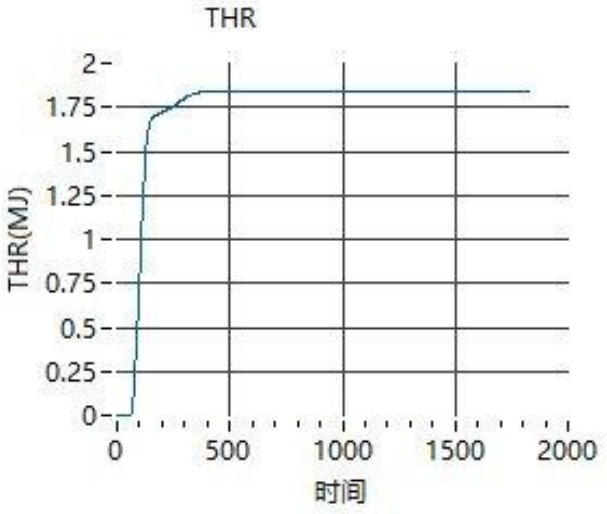


Figure 2 Set S1

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Test Report

Date : 2024-07-04
No. : CT24060064

TEST RESULT(S):

Sample Set S2:

Measurement Type	Initial Value	Maximum Value	Time Occurred (min: sec)	Allowed Value	Allowed Value
Heat Release Rate (kW)	0	33.2	00:48	200	Pass
Total Heat Release – First 10 Min (MJ)	2.2			15	Pass

Total Test Time, (min:sec):	30:00
Total Heat Release (Entire Test, MJ)	2.2
Please reference Figure 3 and 4 for graphical representation of the Heat Release Rate and Total Heat Release.	

OBSERVATIONS:

·10:00 – Sample was removed from conditioning room.
·10:10 – Test was started.
·10:17 – All burning of specimen had ceased .
·10:40 – Test was stopped.

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TEST RESULT(S):

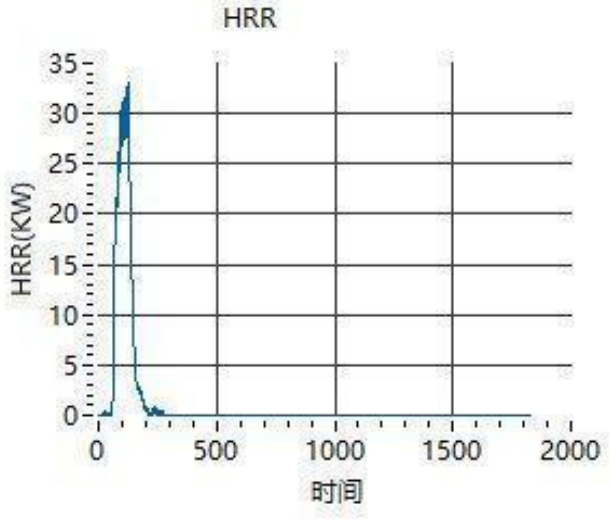


Figure 3 Set S2

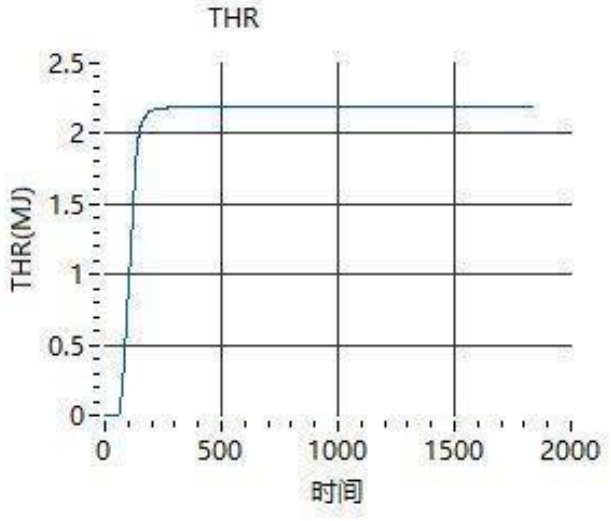


Figure 4 Set S2

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Test Report

TEST RESULT(S):

Sample Set S3:

Measurement Type	Initial Value	Maximum Value	Time Occurred (min: sec)	Allowed Value	Allowed Value
Heat Release Rate (kW)	0	34.9	00:51	200	Pass
Total Heat Release – First 10 Min (MJ)	2.4			15	Pass

Total Test Time, (min:sec):	30:00
Total Heat Release (Entire Test, MJ)	2.4
Please reference Figure 5 and 6 for graphical representation of the Heat Release Rate and Total Heat Release.	

OBSERVATIONS:

·10:40 – Sample was removed from conditioning room.
·10:50 – Test was started.
·10:55 – All burning of specimen had ceased .
·11:20 – Test was stopped.

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TEST RESULT(S):

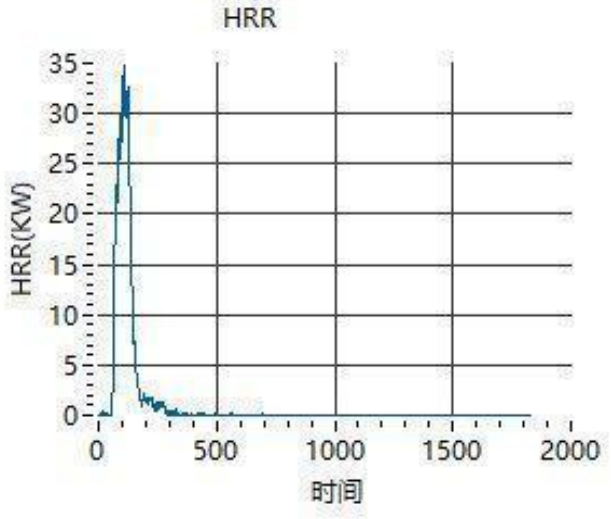


Figure 5 Set S3

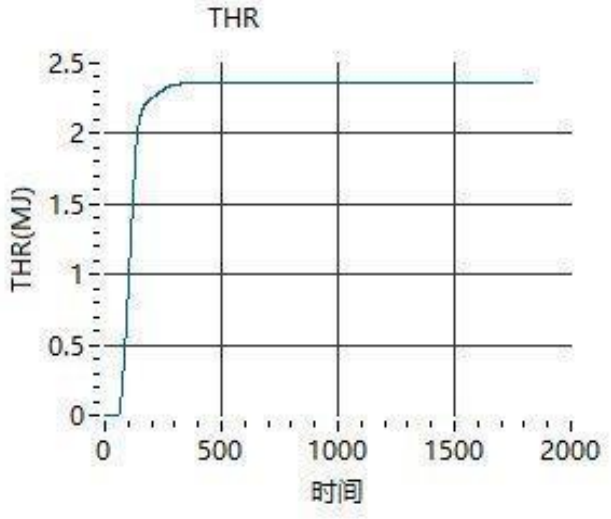
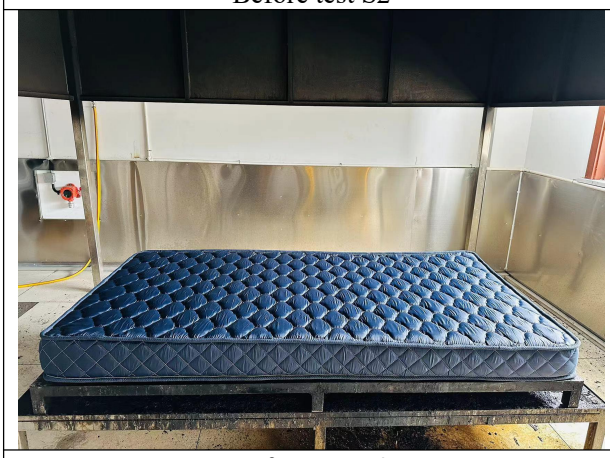


Figure 6 Set S3

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Test Report

The photo of submitted samples

	
Before test S1	After test S1
	
Before test S2	After test S2
	
Before test S3	After test S3

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

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