

VT

Mr. Onur Gumue

	BRN Sleep Products LLC. 3771 Cameron Road Orangeburg, SC 29115 USA	Fax: Mobile: PO#: Email:	ogumus@brnbed.com	Completed: Code: Test Report:	6/11/2021 X 3-43977-0	
Key Test:	CFR 16 Part 1633 3 Sets				9	930
Client's Identi Style: KLS1	fication: 2GH. Identification #: Klaussner	12" Gel Hybrid Mai	ttress. (see continuati	on)		
Category: Ma	ttress set, open flame test (CPSC)	LE 2018; V 03/20	PC: 48H	CODE: 310/620/930 bb		
TEST PER	FORMED: CFR Title 16 Part 16	633 - Standard for	the Flammability (	Open Flame) of Mattress	Sets	DOM: OHOUSE
CLIENT'S I	DENTIFICATION (Continuation	n):				METHOD CONTRACTOR
Mattress:						
Type: D	☑ Smooth; ☐ Tufted; ☐ Quilted	d;   Other:	_			county. Will washed
	nen Composite: vering Material (Ticking): Knitte	ed Fabric				MARKET STREET,
Fire	e Blocking Layer (Interliner): Co	otton Wadding				VARAGE PARTIES
Filli	ing Material(s): INSBC					OLA POSSESS A PROCESS
Ins	ulator Pad: Non-Woven					eyening temporal
Cor	re: Pocket Coil + Foam Layer					
Foundation	$_{1}$ : $oxed{oxed}}}}}}}}}}}}}}}}} } }}} $					100000000000000000000000000000000000000
	cation #: en Composite:					
Co	vering Material (Ticking):	_				
Fire	e Blocking Layer (Interliner):					
Oth	ner Material(s):					
INSBC = In	formation not supplied by clien	t				
	Annual Control of the State of					

Phone:

Ver. 2021-03-09 10:35 Page 1 of 6

Received:

6/3/2021

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Tested For:	BRN Sleep Products LLC. Fax:  3771 Cameron Road Mol  Orangeburg, SC 29115 PO#  USA Ema	bile: :	com	Completed: Code: Test Report:	6/11/2021 X 3-43977-0	
Key Test:	CFR 16 Part 1633 3 Sets					930
TEST CAT	EGORY REQUESTED:					
☐ Con☐ Proc☐ Expe☐ Subc☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	lified Prototype (3 mattress sets) firming Prototype (1 mattress set) duction Quality Assurance (1 mattress set) erimental ordinate Prototype (1 mattress set): Ticking Substitution Other Component Substitution (explain): Manufacturer Specification Change (explain ective Data Prototype (explain):	n):				
Note: As do with a foun	efined by CFR Title 16 Part 1633, a "mattre dation. The sale of mattresses tested witho	ss set" can either be ut foundations migh	e a mattress v t be limited to	vithout a foundati that configuratio	on or a mati n.	tress
TEST ROO	OM (CONFIGURATION):					
Dimens	sions: 10 ft. x 12 ft. x 8 ft. high					
Conditi	ons:	<u>S</u>	et #1	<u>Set #2</u>	<u>Set #3</u>	
	rature (ºF): ïed: >59 ºF and <80.6 ºF)		73	73	71	
	ty (% RH): ied <75% RH)		46	48	49	
	ng between conditioning room and test start ied: 20 min max)	(minutes):	8	6	6	

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6/2/2021

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ogumus@brnbed.com

Code: **Test Report:** 

Received:

Completed:

6/11/2021 X

6/3/2021

3-43977-0

**Key Test:** 

CFR 16 Part 1633 3 Sets

930

BRIEF DESCRIPTION OF TEST: A mattress set is placed on a support system. Flames from a multi-hole propane burner impinge on the side of the mattress set for a period of 50 seconds, and flames from a second multi-hole burner impinge on the top of the mattress set for a period of 70 seconds. The recording instrumentation in the exhaust duct evaluates the combustion product and a formula calculates the highest heat release value recorded during the test period. It also records the total heat released during the entire test. The test continues until failure occurs or 30 minutes have elapsed.

### TEST CATEGORIES:

Qualified Prototype:

Three mattress sets must demonstrate compliance with the Acceptance Criteria.

Confirmed Prototype:

One mattress set must demonstrate compliance with the Acceptance Criteria, and the manufacturing specifications (construction and components) of the mattress set must be the same as the manufacturing specifications for an existing Qualified Prototype mattress set.

Subordinate Prototype:

A mattress set that is based on a Qualified Prototype or Confirmed Prototype. There is no requirement for a Subordinate Prototype to be tested. This test exemption is qualified by section 1633.4, which comments upon the use of different tickings; different components; different materials; different designs; or different methods of assembly. The qualification to permit these changes states that a reasonable basis should be offered to indicate that such changes would not cause the test criteria to be exceeded. Therefore, it is assumed that a test conducted on one set of a Subordinate Prototype would support the reasonable basis theory.

Production Quality Control:

This test is an ongoing quality control test to determine if one or more actual production mattress sets conform to the Qualified Prototype.

Experimental:

Experimental mattress set to evaluate manufacturing specifications.

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3-43977-0

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CFR 16 Part 1633 3 Sets

930

### RESULTS:

	Categories	Set #1	Set #2	Set #3
	Peak (kW):	32.5	32.9	31.8
Rate of	Time Peak Rate occurred (seconds):	51	56	43
Heat Release	Total Heat Release (MJ) at 10 minutes [or test end, if sooner than 10 minutes]:	3.2	3.4	4.1
Test End	Time (mm:ss):	30:00	30:00	30:00
	Code:	(2)	(2)	(2)

### CODES EXPLAINED:

(1) Extinguished by technician when maximum criteria values were exceeded.

(2) Maximum test period (30 minutes).

# ABBREVIATIONS WHICH MAY BE USED:

NT = Not tested, as noncompliance was found with a previous set

NA = Not available

VT

NR = Not required to be tested

#### ACCEPTANCE CRITERIA: For each mattress set --

Peak Rate of Heat Release	Total Heat Release at 10 minutes		
200 kW maximum	15 MJ maximum		

CONCLUSION: Based on the reported Results and cited Acceptance Criteria:

3 Mattress set/s demonstrate/s COMPLIANCE with the Acceptance Criteria

0 Mattress set/s demonstrate/s NONCOMPLIANCE with the Acceptance Criteria

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CFR 16 Part 1633 3 Sets

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REMARKS: None.

OBSERVATIONS (all observations are stated in relationship to flame impingement point):

		Time	
3	Set#	<u>(mm:ss)</u>	<u>Observations</u>
	1	00:07	Cover material ignited
		01:10	Burner removed; fire burning on top and front side of mattress
		03:30	Light fire burning on top and front side of cover
		10:00	Light fire continues to burn on front side of mattress
		15:00	No visible smoke or fire
		30:00	End of test
	2	00:07	Cover material ignited
		01:10	Burner removed; fire burning on top and front side of mattress
		04:00	Light fire on front and top of mattress cover
		09:00	Light smoke from front side of mattress
		15:00	Fire burning towards front corner
		20:30	No visible smoke or fire
		30:00	End of test
	3	00:07	Cover material ignited
	•	01:10	Burner removed; fire burning on top and front side of mattress
		03:30	Light fire burning on top and front sides
		10:00	Fire burning on front side in both directions
		16:00	Fire burning at corner of mattress
		22:00	Fire burning at both sides of mattress
		30:00	End of test

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**Key Test:** 

CFR 16 Part 1633 3 Sets

930

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified above.

Jillian Guillem

JUN 2 8 2021

AUTHORIZED SIGNATURE

SGS NORTH AMERICA

/jab /al

Enclosures: Graph (Rate of Heat Release vs. Time)

Summary Video

Test Technician: Vincent Timmons

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# Test # 1

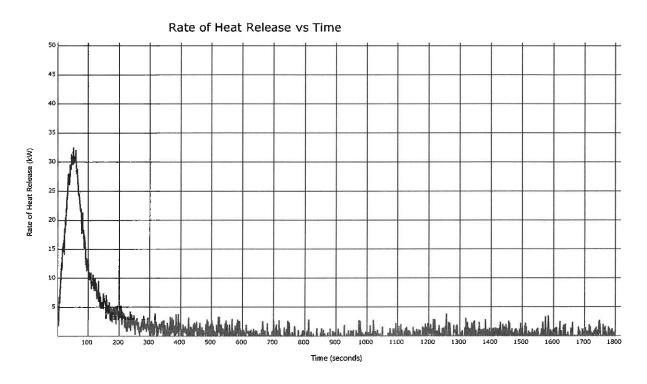


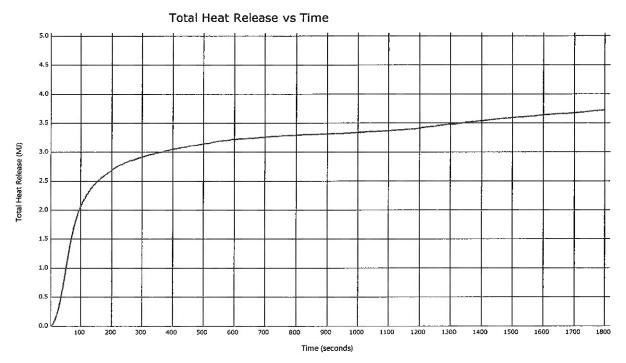
Program: (Version 0.4.0)

<b>Test Specification</b>	: CFR 1633				
Report #	: 3-43977-0-				
Client	: BRN SLEEP PRODUCT:	S LLC			
Mattress ID #	: KLS12GH KLAUSSNER	12" GEL HYBRID M	ATTRESS		
Test Date	: 6/11/2021				
Test Time	: 10:06 AM				
Operator	: Vinny Timmons				
Initial Dean Candi	Mana.				
Initial Room Condit					
Temperature					
	: 46 %				
Results					
Peak Rate of H	eat Release	: 32.5 kW	Peak Time	: 51 seconds	
Total Heat Rele	ease at 10 minutes	: 3.2 MJ			
Failure Criteria					
[ ] Peak rate	of heat release exceeds	200 kW			
	release at 10 minutes e				
	inated early by operator				
[ ] Test term	mateu carry by operator				
Conclusion: Based	d on the above results, tl	he item tested:			
[X] Passes	[ ] Fails				
[V] 1 43363	f lugus				
CERTIFICATION : I co	ertify that the above res	ults were obtained	after testing th	e specimens in accordar	ıce
	s and equipment specific				
The production of	o and equipment specim	Ca by 10 C/ (( 1055			
16 7					
Vinny Timmons		_			
AUTHORIZED SIGNA	TURF				



Test Method : CFR 1633
Test Report # : 3-43977-0-





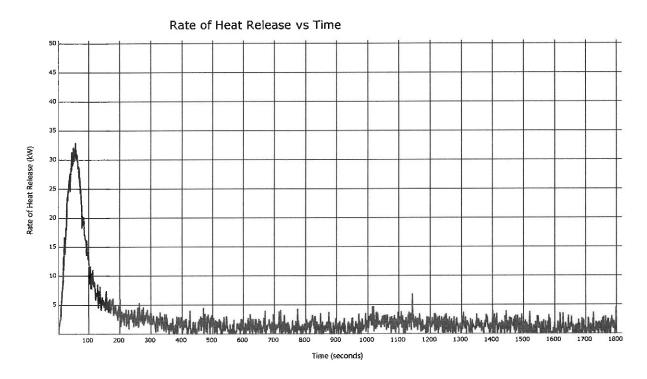
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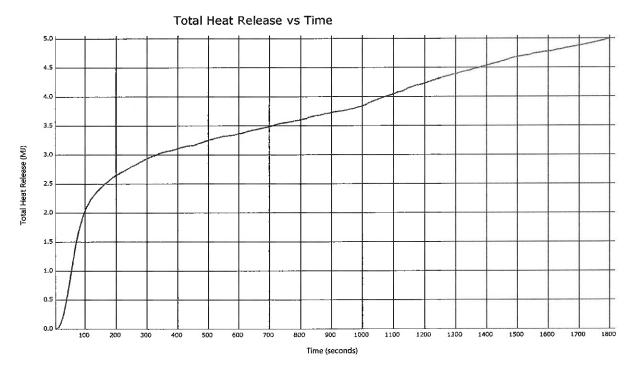


Report # Client Mattress ID # Test Date	: 3-43977-0 : BRN SLEEP PRODUCTS : KLS12GH KLAUSSNER : 6/11/2021		TTRESS		
Test Time	: 11:05 AM				
Operator	: Vinny Timmons				
Initial Room Condit	ions				
Temperature	: 73 °F				
Humidity	: 48 %				
Results					
Peak Rate of He Total Heat Rele	eat Release ease at 10 minutes	: 32.9 kW : 3.4 MJ	Peak Time	: 56 seconds	
[ ] Total heat	of heat release exceeds release at 10 minutes e nated early by operator	exceeds 15MJ			
Conclusion: Based	d on the above results, t	he item tested:			
[X] Passes	[ ] Fails				
	ertify that the above res s and equipment specifi		after testing th	e specimens in acco	ordance
Vinny Timmons		_			
AUTHORIZED SIGNA	ATURE				



Test Method Test Report # : CFR 1633 : 3-43977-0--





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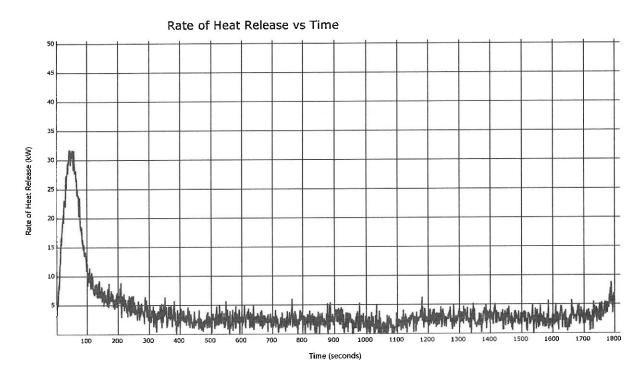


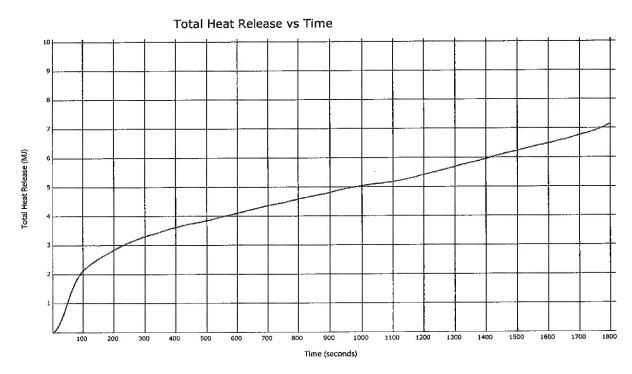


rest Specification	: CFK 1633				
Report #	: 3-43977 <b>-</b> 0				
Client	: BRN SLEEP PRODUCT:				
Mattress ID #	: KLS12GH KLAUSSNER	12" GEL HYBID MA	ITRESS		
Test Date	: 6/11/2021				
Test Time	: 11:43 AM				
Operator	: Vinny Timmons				
Initial Room Condi	tions				
Temperature	: 71 °F				
Humidity	: 49 %				
Results					
Peak Rate of H	eat Release	: 31.8 kW	Peak Time	: 43 seconds	
Total Heat Rele	ease at 10 minutes	: 4.1 MJ			
Failure Criteria					
[ ] Peak rate	of heat release exceeds	200 kW			
[ ] Total heat	t release at 10 minutes e	exceeds 15MJ			
	inated early by operator				
Conclusion: Base	d on the above results, t	he item tested:			
[X] Passes	[ ] Fails				
CERTIFICATION : La	ertify that the above res	sults were obtained	after testing the	e snecimens in acco	ordance
	es and equipment specifi		arer resums an	o openinano in acci	
with the procedure	s and equipment specin	led by 10 CFN 1055			
11. T.					
Vinny Timmons		_			
AUTHORIZED SIGNA	ATURE				



Test Method Test Report # : CFR 1633 : 3-43977-0---





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