

**Mr. Onur Gumus** 

	BRN Sieep Products LLC. 3771 Cameron Road	Fax: Mobile:		Completed: Code:	6/23/2021 Z
	Orangeburg, SC 29115	PO#:		Test Report:	3-44093-0
	USA	Email:	ogumus@brnbed.com		
Key Test:	CFR 16 Part 1633 3 Sets				930
Client's identification Style: KLS10	cation: OGH. Identification #: Klaussner	10" Gel Hybrid Mat	ttress. (see continua	ution)	
Category: Matt	ress set, open flame test (CPSC)	LE 2018; V 03/20	PC: 48H	CODE: 310/620/930 bb	
TEST PERF	FORMED: CFR Title 16 Part 1	633 - Standard fo	the Flammability	(Open Flame) of Mattress	Sets
CLIENT'S II	DENTIFICATION (Continuatio	n):			
Mattress:					
Type: ⊠	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	d; 🗆 Other:	_		
Specime Cov	en Composite: vering Material (Ticking): Knitt	ed Fabric			
Fire	Blocking Layer (Interliner): Co	otton Fire Wadding	g		
Filli	ng Material(s): INSBC				
lnsı	ulator Pad: Non-Woven				
Cor	e: Pocket Coil + Foam Layer				
Foundation	: ⊠ Not supplied; □ Supplied				
	eation #: en Composite:				
Cov	vering Material (Ticking):	_			
Fire	e Blocking Layer (Interliner): _				
Oth	ner Material(s):				
INSBC = In	formation not supplied by clie	nt			

Phone:

VT

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6/7/2021

6/23/2021

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Tested For:	Mr. Onur Gumus BRN Sleep Products LLC. 3771 Cameron Road Orangeburg, SC 29115 USA	Phone: Fax: Mobile: PO#: Emall:	ogumus@bmbed.com	Received: Completed: Code: Test Report:	6/7/2021 6/23/2021 Z 3-44093-0
Key Test:	CFR 16 Part 1633 3 Sets				930
□ Qual     □ Conf     □ Prod     □ Expe     □ Subo     □ 1     □ Obje	EGORY REQUESTED:  ified Prototype (3 mattress sets irming Prototype (1 mattress set uction Quality Assurance (1 materimental ordinate Prototype (1 mattress ser icking Substitution Other Component Substitution (Manufacturer Specification Charactive Data Prototype (explain): efined by CFR Title 16 Part 163 dation. The sale of mattresses	et) attress set) set): [explain]: nge (explain):	t" can either be a mattres:	s without a foundati to that configuratio	on or a mattress
TEST ROC	M (CONFIGURATION):				
Dimens	sions: 10 ft. x 12 ft. x 8 ft. high				
Conditie	ons:		<u>Set #1</u>	<u>Set #2</u>	<u>Set #3</u>
	rature (ºF): led: >59 ºF and <80.6 ºF)		74	73	74
	ty (% RH): ed <75% RH)		43	40	42

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Time lag between conditioning room and test start (minutes):

(Specified: 20 min max)

VT

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ogumus@brnbed.com

Test Report:

3-44093-0

**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:

VI

Experimental mattress set to evaluate manufacturing specifications.

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**Key Test:** 

CFR 16 Part 1633 3 Sets

RESULTS:

	Categories	Set #1	Set #2	Set #3
	Peak (kW):	29.3	27.6	28.5
Rate of	Time Peak Rate occurred (seconds):	61	60	57
Heat Release	Total Heat Release (MJ) at 10 minutes [or test end, if sooner than 10 minutes]:	3.1	3.0	2.9
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

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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

930

REMARKS: None.

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

	Time	
Set#	(mm:ss)	<u>Observations</u>
1	00:07	Cover material ignited
	01:10	Burner removed; fire burning on top and front side of mattress
	03:00	Little fire spreading across front side and top of mattress
	10:00	Light fire continues to spread across front side of mattress
	15:00	Light smoke condition
	20:00	Moderate smoke
	25:00	Fire burning on sides of mattress; heavy smoke
	30:00	End of test
2	00:07	Cover material ignited
_	01:10	Burner removed; fire burning on top and front side of mattress
	03:00	Light fire burning on top of mattress
	10:00	Fire burning down front side of mattress
	14:00	No visible smoke or fire remain
	30:00	End of test
3	00:07	Cover material ignited
	01:10	Burner removed; fire burning on top and front side of mattress
	04:00	Light fire burning on front side of mattress
	10:00	Fire traveling down front side of mattress
	16:00	Light smoke condition
	21:00	Moderate smoke from top of mattress
	25:00	Fire burning on back side of mattress
	30:00	End of test

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CFR 16 Part 1633 3 Sets

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Received: Completed:

**Test Report:** 

6/7/2021 6/23/2021

Code:

Z 3-44093-0

930

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

AUTHORIZED SIGNATURE

SGS NORTH AMERICA

/jab /al

Enclosures:

Jillian Guillem

JUN 2 8 2021

Graph (Rate of Heat Release vs. Time) Summary Video

Test Technician: Vincent Timmons

VT

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Vinny Timmons

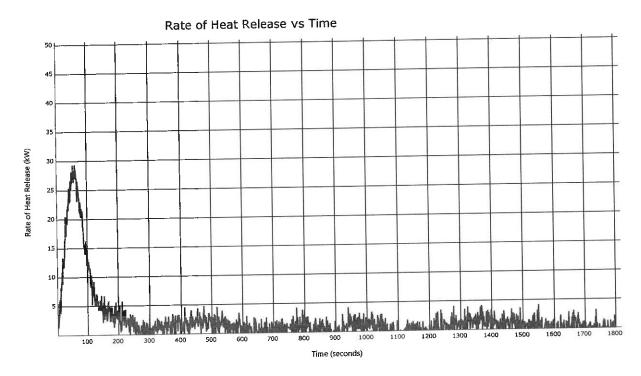
**AUTHORIZED SIGNATURE** 

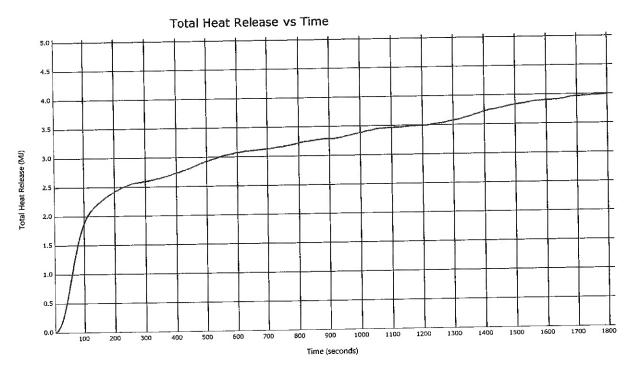
Program: (Version 0.4.0)

Initial Room Conditions  Temperature : 74 °F Humidity : 43 %  Results  Peak Rate of Heat Release : 29.3 kW Total Heat Release at 10 minutes : 3.1 MJ  Failure Criteria  [ ] Peak rate of heat release exceeds 200 kW [ ] Total heat release at 10 minutes exceeds 15MJ [ ] Test terminated early by operator  Conclusion: Based on the above results, the item tested:  [ X ] Passes [ ] Fails  CERTIFICATION: I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by 16 CFR 1633	Test Specification Report # Client Mattress ID # Test Date Test Time Operator	: CFR 1633 : 3-44093-0-Z1 : BRN SLEEP PRODUCTS LLC : KLS10GH ID- KLAUSSNER 10" GEL HYBRID MATTRESS : 6/23/2021 : 12:04 PM : Vinny Timmons				
Temperature : 74 °F Humidity : 43 %  Results  Peak Rate of Heat Release : 29.3 kW Peak Time : 61 seconds  Total Heat Release at 10 minutes : 3.1 MJ  Failure Criteria  [ ] Peak rate of heat release exceeds 200 kW [ ] Total heat release at 10 minutes exceeds 15MJ [ ] Test terminated early by operator  Conclusion: Based on the above results, the item tested:  [X] Passes [ ] Fails  CERTIFICATION: I certify that the above results were obtained after testing the specimens in accordance	Initial Room Condi	itions				
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CENTIFICATION . I COINTY that the above resided by 16 CEP 1633	CERTIFICATION : I certify that the above results were obtained after testing the specimens in accordance					
with the precedures and equipment specified by 10 CEV 1000	with the precedur	res and equipment specified by 1	6 CFR 1633			



Test Method Test Report # : CFR 1633 : 3-44093-0-Z--1





96D Allen Blvd | Farmingdale, NY 11735 | (631) 293-8944 | www.govmark.com



Test Specification Report # Client Mattress ID # Test Date Test Time Operator	: 3-44093-0 : BRN SLEEP PRODUCTS LLC : BRN SLEEP PRODUCTS LLC				
Initial Room Condit	tions				
Temperature	: 73 °F				
	: 40 %				
Results				4	
Peak Rate of H	eat Release	: 27.6 kW	Peak Time	: 60 seconds	
Total Heat Release at 10 minutes : 3.0 MJ					
Failure Criteria					
[ ] Peak rate	of heat release exceeds 200	kW			
[ ] Total heat release at 10 minutes exceeds 15MJ					
[ ] Test terminated early by operator					
Conclusion: Base	d on the above results, the it	em tested:			

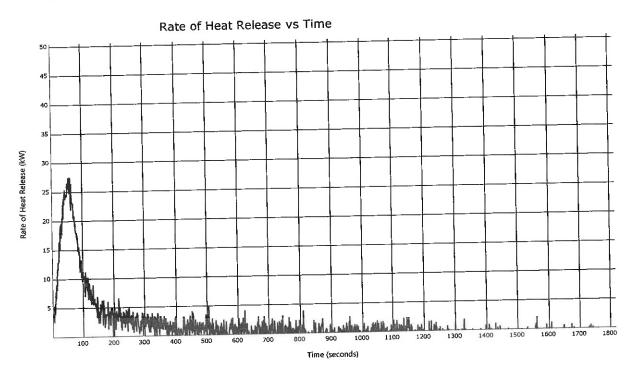
CERTIFICATION: I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by 16 CFR 1633

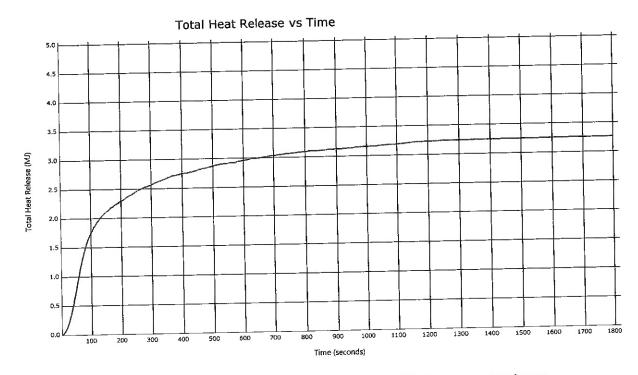
Vinny Timmons
AUTHORIZED SIGNATURE

[X] Passes [] Fails



Test Method Test Report # : CFR 1633 : 3-44093-0--







Test Specification	: CFR 1633
Report #	: 3-44093-0

Client : BRN SLEEP PRODUCTS LLC
Mattress ID # : KLS10GH ID- KLAUSSNER 10" GEL HYBRID MATTRESS

: 6/23/2021 Test Date : 2:41 PM Test Time : Vinny Timmons Operator

# **Initial Room Conditions**

Temperature : 74 °F Humidity : 42 %

#### **Results**

Peak Time : 57 seconds : 28.5 kW Peak Rate of Heat Release

: 2.9 MJ Total Heat Release at 10 minutes

# **Failure Criteria**

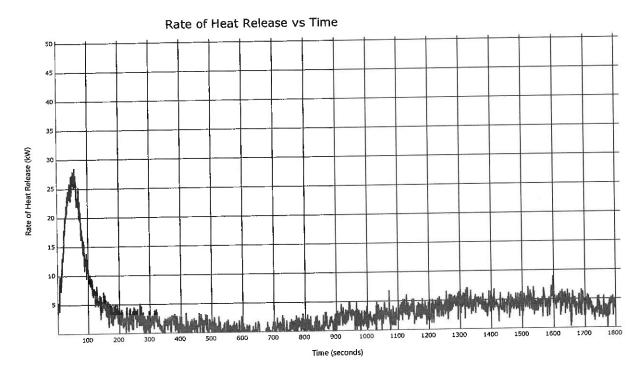
[ ] Peak rate of heat release exceeds 200 kW [ ] Total heat release at 10 minutes exceeds 15MJ [ ] Test terminated early by operator Conclusion: Based on the above results, the item tested: [ ] Fails [X] Passes

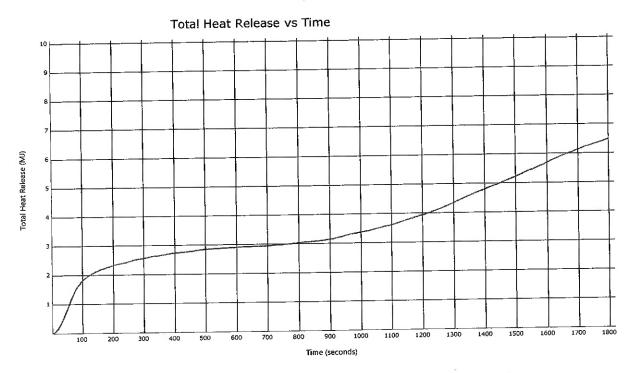
CERTIFICATION: I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by 16 CFR 1633

Vinny Timmons **AUTHORIZED SIGNATURE** 



Test Method Test Report # : CFR 1633 : 3-44093-0---





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