

Tested For: Mr. Onur Gumus
BRN Sleep Products LLC.
3771 Cameron Road
Orangeburg, SC 29115
USA

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Received: 6/3/2021
Completed: 6/23/2021
Code: Y
Test Report: 3-43978-0

Key Test: CFR 16 Part 1632 Mattress (Smooth) 2S

310

Client's Identification:

Style: KLS12GH. Identification #: Klaussner 12" Gel Hybrid Mattress. (see continuation)

Test Category: Cigarette Ignition Specifier: CPSC LE 2018; V 9/18 PC: 48H SM/pm

TEST PERFORMED: CFR Title 16 Part 1632 - Standard for the Flammability of Mattresses and Mattress Pads (FF 4-72, Amended)

Ignition Source: SRM 1196a Cigarette

PRODUCT CATEGORY: Smooth Surface Mattress: With tape edge; Without tape edge

TEST SELECTION: Prototype
 Production Quality Assurance
 Experimental

MATTRESS COMPOSITE CLIENT'S IDENTIFICATION (continuation):

Covering Material (Ticking): Knitted Fabric

Fire Blocking Layer (Interliner): Cotton Fire Wadding

Filling Material (s): INSBC

Insulator Pad: Non-Woven

Core: Pocket Coil + Foam Layer

ABBREVIATIONS WHICH MAY BE USED: INSBC = Information Not Supplied By Client

Conditioning Prior to Testing: In accordance with paragraph 1632.4 --

At least 48 hours at greater than 18°C (65°F) and less than 55% RH

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BRIEF DEESCRPTION OF TEST: A minimum of 18 lighted cigarettes are placed on the mattress surface. A line is drawn across the width of the mattress, dividing it into two equal sections. One of the sections is covered with a once laundered 100% cotton bed sheet. Nine lighted cigarettes are placed on the covered section. A second piece of cotton sheeting is then placed over this group of nine cigarettes to intensify the heat. The other section remains uncovered. Nine lighted cigarettes are placed on this uncovered section. In certain instances, cigarettes will self-extinguish. When this occurs, additional lighted cigarettes must be placed on the mattress. This will increase the ACTUAL number of cigarettes beyond the minimum total of 18. The test records the number of ignitions that occur at any cigarette placement location. If there is an obvious ignition, that placement location is extinguished and a "char length" measurement is not made. In certain instances, ignition is not obvious and there may be continuous burning beyond the cigarette. When this occurs, a char length measurement is made.

REMARKS: None.

RESULTS:

SURFACE #1	Cigarette Placement Location	# of Cigarette Placements	# of Obvious Ignitions	# of Chars Measuring More than 2" Beyond Cigarette
Bare (without sheets)	Edge	*	*	*
	Smooth	9	0	0
Covered (with sheets)	Edge	*	*	*
	Smooth	9	0	0
	Totals for Surface #1:	18	0	0

SURFACE #2				
Bare (without sheets)	Edge	*	*	*
	Smooth	9	0	0
Covered (with sheets)	Edge	*	*	*
	Smooth	9	0	0
	Totals for Surface #2:	18	0	0

Note: An asterisk (*) indicates that there was no edge to support a cigarette placement.

"PD" indicates that the char penetrated to a depth of more than 2" without obvious flaming ignition.

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FAILURE CRITERIA: The mattress fails the test if any obvious ignition occurs or there is a char measurement of more than 2".

CONCLUSION: Based on the reported Results and the cited Failure Criteria, the item tested:

Passes; Fails

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

Jillian Guillem

Test Technician: Jillian Guillem

JUN 28 2021

Enclosure: Photos



Test Report #: 3-43978-0-Y

Surface: 1

Date: 6/23/2021



Test Report #: 3-43978-0-Y

Surface: 2

Date: 6/23/2021

