



CONSUMER PRODUCTS SERVICES DIVISION

AIRNETTRESS LTD (NUMU)

Technical Report: (5119)149-0219
Date Received: May 29, 2019

June 25, 2019
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SHLOMO ABADI
AIRNETTRESS LTD – NUMU BABY MATTRESS
MISHMAROT 170
KIBOZ MICHMAROT, 3784000
ISRAEL

Sample Description:	BABY MATTRESS	Sample Size:	4
Vendor:	ISRAEL	Style No(s):	N/A
Manufacturer:	ISRAEL	SKN/SKU No.:	N/A
Buyer:	N/A	PO No.:	N/A
Labeled Age Grade:	NOT PRESENT	Ref #:	N/A
Appropriate Age Grade:	CHILDREN PRODUCTS, FROM 0 TO 3 YEARS OF AGE	Country of Origin:	NO INFORMATION
Client Specified Age Grade:	NOT REQUESTED	Assortment No.:	N/A
Tested Age Grade:	CHILDREN PRODUCTS, FROM 0 TO 3 YEARS OF AGE		
UPC Code:	N/A		

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The physical requirements of ASTM F2933-18, "Standard Consumer Safety Specification for Crib Mattresses".
- The flammability requirements of 16 CFR 1632, Standard for the Flammability of Mattresses and Mattress Pads (FF-4-72, Amended).
- The flammability requirements of 16 CFR 1633 "Standard for the Flammability (Open Flame) of Mattress Sets."
- The phthalates content requirements of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) Prohibition On Sale of Certain Products Containing Specified Phthalates. Effective: April 25, 2018.
- The total lead content of 100ppm requirements by composite testing in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).
- The total lead content of 90ppm requirements of 16 CFR 1303, "Ban of lead-containing paint and certain consumer products bearing lead-containing paint" as mandated by Congress in section 101(f) of the Consumer Products Safety Improvement Act (CPSIA) of 2008, Public Law 110-314.

Note: The sample was received without packaging or labeling. A packaging and labeling evaluation was not conducted on the submitted samples.

Note: The labeling requirement of 16 CFR 1632 "Standard for the Flammability of Mattresses And Mattress Pads" was not conducted.

Note: Testing to 16 CFR 1633 was performed at a CPSC certified subcontract lab.

Note: According to the associated documents of Consumer Product Safety Improvement Act (CPSIA) of 2008, exemptions were granted to certain materials or products, such as natural materials / paper and similar materials / CMYK process printing inks / metal & alloys / electronics devices components / ordinary books / dyed & undyed textiles. Therefore, the lead content analysis <of cmyk, paper, fabric components> was not conducted.



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Bureau Veritas
Consumer Products Services, Inc.

Kelly J. Sabo.
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/cq

cc: AMON SHIBOLETH, AIRNETTRESS LTD (NUMU)



RESULTS:

ASTM F2933-18 STANDARD CONSUMER SAFETY SPECIFICATION FOR CRIB MATTRESSES

Section	Requirements	Result
5	General Requirements	
5.1	Applicable mandatory federal statutes and regulations.	See Executive Summary and Results
5.2	Hazardous sharp points or edges	M
5.3	Small parts	M
5.4	Paint and surface coatings on the product shall comply with 16 CFR 1303	See Executive Summary and Results
5.5	Openings	NA
5.6	Labeling	NT
5.7	Mattress Dimensions	M
5.8	After-Market Mattress for Play Yard and Non-Full Size Crib	NA
7	Marking and Labeling	NT

M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section



**16 CFR 1632
 Flammability of Mattresses and Mattress Pads
 Interim Enforcement Policy (Reduced Prototype Testing)**

The sample was tested for flammability in accordance with 1632.5(a). The conditions of the test room at the time of testing as specified in section 1632.4 (d) were greater than 18°C and at a relative humidity less than 55%. Test sample was received without a flame retardant advisement and therefore was not laundered 10 times in accordance with the procedures outlined in section 1632.5 (b)(2). The results are recorded in the tables below.

SAMPLE 1 Side a				
Bare Mattress Test				
Test Number	Test Location			No. Relights
	Smooth	Tape Edge	Quilt	
1	< 2 in	-	-	0
2	< 2 in	-	-	0
3	< 2 in	-	-	0
4	< 2 in	-	-	0
5	< 2 in	-	-	0
6	< 2 in	-	-	0
7	< 2 in	-	-	0
8	< 2 in	-	-	0
9	< 2 in	-	-	0
Two-Sheet Test				
Test Number	Test Location			No. Relights
	Smooth	Tape Edge	Quilt	
1	< 2 in	-	-	0
2	< 2 in	-	-	0
3	< 2 in	-	-	0
4	< 2 in	-	-	0
5	< 2 in	-	-	0
6	< 2 in	-	-	0
7	< 2 in	-	-	0
8	< 2 in	-	-	0
9	< 2 in	-	-	0

SAMPLE 1 Side B				
Bare Mattress Test				
Test Number	Test Location			No. Relights
	Smooth	Tape Edge	Quilt	
1	< 2 in	-	-	0
2	< 2 in	-	-	0
3	< 2 in	-	-	0
4	< 2 in	-	-	0
5	< 2 in	-	-	0
6	< 2 in	-	-	0
7	< 2 in	-	-	0
8	< 2 in	-	-	0
9	< 2 in	-	-	0
Two-Sheet Test				
Test Number	Test Location			No. Relights
	Smooth	Tape Edge	Quilt	
1	< 2 in	-	-	0
2	< 2 in	-	-	0
3	< 2 in	-	-	0
4	< 2 in	-	-	0
5	< 2 in	-	-	0
6	< 2 in	-	-	0
7	< 2 in	-	-	0
8	< 2 in	-	-	0
9	< 2 in	-	-	0



**16 CFR 1632
 Flammability of Mattresses and Mattress Pads (con't)**

SAMPLE 2 Side A				
Bare Mattress Test				
Test Number	Test Location			No. Relights
	Smooth	Tape Edge	Quilt	
1	< 2 in	-	-	0
2	< 2 in	-	-	0
3	< 2 in	-	-	0
4	< 2 in	-	-	0
5	< 2 in	-	-	0
6	< 2 in	-	-	0
7	< 2 in	-	-	0
8	< 2 in	-	-	0
9	< 2 in	-	-	0
Two-Sheet Test				
Test Number	Test Location			No. Relights
	Smooth	Tape Edge	Quilt	
1	< 2 in	-	-	0
2	< 2 in	-	-	0
3	< 2 in	-	-	0
4	< 2 in	-	-	0
5	< 2 in	-	-	0
6	< 2 in	-	-	0
7	< 2 in	-	-	0
8	< 2 in	-	-	0
9	< 2 in	-	-	0

SAMPLE 2 Side B				
Bare Mattress Test				
Test Number	Test Location			No. Relights
	Smooth	Tape Edge	Quilt	
1	< 2 in	-	-	0
2	< 2 in	-	-	0
3	< 2 in	-	-	0
4	< 2 in	-	-	0
5	< 2 in	-	-	0
6	< 2 in	-	-	0
7	< 2 in	-	-	0
8	< 2 in	-	-	0
9	< 2 in	-	-	0
Two-Sheet Test				
Test Number	Test Location			No. Relights
	Smooth	Tape Edge	Quilt	
1	< 2 in	-	-	0
2	< 2 in	-	-	0
3	< 2 in	-	-	0
4	< 2 in	-	-	0
5	< 2 in	-	-	0
6	< 2 in	-	-	0
7	< 2 in	-	-	0
8	< 2 in	-	-	0
9	< 2 in	-	-	0



**16 CFR 1633
 Flammability of Mattresses and Mattress Pads**

Client Identification:	Baby Mattress
Type of Mattress:	Smooth
Foundation:	Not Supplied
Test Category Requested:	Qualified Prototype

<u>Conditions</u>	Set # 1	Set # 2	Set # 3
Temperature (°F)	72	73	73
Humidity (% RH)	39	41	42
Time lag between conditioning room and test start (minutes):	8	6	6

<u>Test Criteria</u>	Set # 1	Set # 2	Set # 3
Peak Rate of Heat Release (kW)	23.9	27.3	24.8
Time at which Peak Rate of Heat Release Occurred (Seconds)	72	76	79
Total Heat Release at 10 minutes (mJ) (Or test end)	2.4	2.4	2.4
Test End – (mm:ss)	30:00	30:00	30:00
Note:	4	4	4

<u>Acceptance Criteria</u>	Maximum (allowable)	Result
Peak Rate of Heat Release (kW)	200	PASS
Total Heat Release at 10 Minutes (mJ) (Or test end)	15	PASS

NT = Not Tested, as noncompliance was found with a previous set.
 NR = Not Required to be tested.

Notes:

- 1 – All burning of specimen had ceased.
- 2 – Extinguished by technician after heat release value had peaked and was declining.
- 3 – Extinguished by technician when escalating combustion was noted.
- 4 – Maximum test period (30 minutes).
- 5 – Items under test substantially consumed.
- 6 – Extinguished by technician when Acceptance Criteria values were exceeded.



PHTHALATES CONTENT IN CHILDREN'S TOYS AND CHILDCARE ARTICLES (Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) Prohibition On Sale of Certain Products Containing Specified Phthalates - BBP / DBP / DEHP / DIBP / DINP / DNHP / DNPP / DCHP CONTENT)
Effective: April 25, 2018

Test Method: With reference to U. S. CPSC-CH-C1001-09.3 (April 1, 2010).

Color / Component	Location	Style
A. Off-white hard plastic	Corner caps	Across
B. White soft plastic	Elastic	Across
C. All color coating with paper backed adhesive	Sticker on frame	Large frame
D. White coating	Frame	Across

Analyte	BBP	DBP	DIBP	DCHP	DNPP	DNHP	DEHP	DINP	
Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Sample	Result (%)								Conclusion
A	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
B	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
C	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
D	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass

Detection Limit :

DIBP = Di-iso-butyl phthalate (0.005%)
DINP = Di-iso-nonyl phthalate (0.005%)
DCHP = Dicyclohexyl phthalate (0.005%)
BBP = Butyl benzyl phthalate (0.005%)
DBP = Dibutyl phthalate (0.005%)
DEHP = Di(2-ethylhexyl) phthalate (0.005%)
DNPP = Di-n-pentyl phthalate (0.005%)
DnHP = Di-n-hexyl phthalate (0.005%)

Results reported in percentage

LT = Less than
ND = None detected



TOTAL LEAD CONTENT IN SUBSTRATE BY COMPOSITE TESTING (100PPM) (Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1001-08.3:2012 or U.S. CPSC-CH-E1002-08.3:2012

Analyte	Lead
Requirement: Maximum allowable limit:	100 mg/kg

Analyte			Lead (Pb)		Conclusion
Sample Description			Result (mg/kg)		
Color / Component	Location	Style	Overall	Potential	
(A) Composite: Beige plastic Green beige plastic	Corner of foam Connector of middle bar	Across Large	LT 10.0		Pass
(B) White thin plastic	Screen	Across	LT 10.0		Pass
(E) Silver metal	Thin bar on long side of frame	Small	LT 10.0		Pass
(F) Silver metal	Thin bar on long side of frame	Large	LT 10.0		Pass
(G) Silver metal	Thick bar on long side of frame	Small	LT 10.0		Pass
(H) Silver metal	Thick bar on long side of frame	Large	LT 10.0		Pass
(I) Silver metal	Thin bar on short side of frame	Small	LT 10.0		Pass
(J) Silver metal	Thin bar on short side of frame	Large	LT 10.0		Pass
(K) Silver metal	Thick bar on short side of frame	Small	LT 10.0		Pass
(L) Silver metal	Thick bar on short side of frame	Large	17.9		Pass
(M) Silver metal	Middle bar	Large	LT 10.0		Pass

LT = Less Than

mg/kg = milligrams per kilogram (ppm = parts per million)

* = Average of duplicate analyses

TOTAL LEAD CONTENT IN SURFACE COATING BY COMPOSITE TESTING ("Ban of Lead-containing paint and certain consumer products bearing Lead-containing paint", Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1003.09.1:2011

Element:					Lead		
Requirement: Maximum allowable limit:					90 mg/kg		
Sample Description					Result (mg/kg)		Conclusion
Color / Component	Location	Style	Overall	Potential			
(C) Black/white coating	Sewn in tag	Across	LT 10.0	-		Pass	
(D) White coating	Frame	Across	LT 10.0	-		Pass	

LT = Less Than

mg/kg = milligrams per kilogram (ppm = parts per million)

* = Average of duplicate analyses

Potential = Estimated lead content per component is based on calculation by component individual weight

EXHIBIT # 1



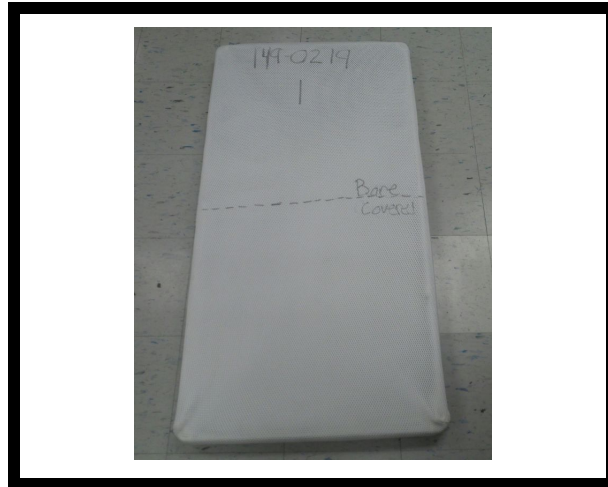
SAMPLE PRODUCT

EXHIBIT # 2



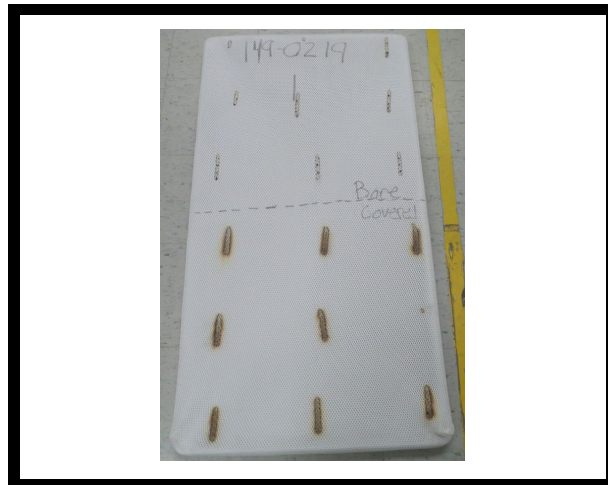
ORIGINAL SAMPLE PRODUCT

EXHIBIT # 3



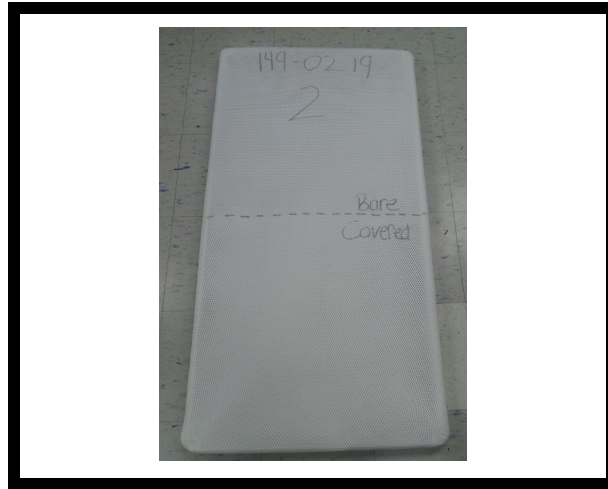
MATTRESS #1 BEFORE TEST

EXHIBIT # 4



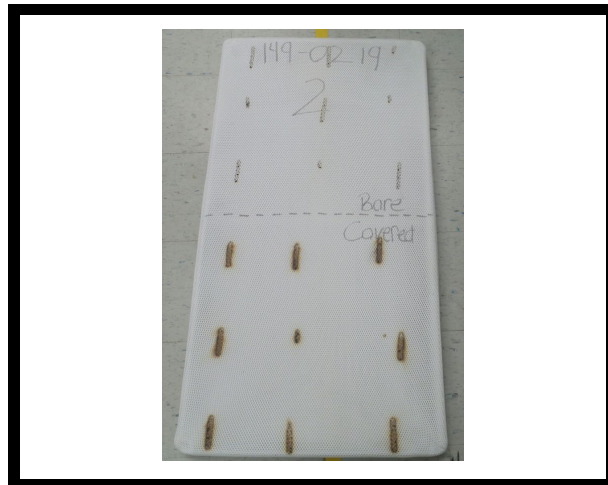
MATTRESS #1 AFTER TEST

EXHIBIT # 5



MATTRESS #2 BEFORE TEST

EXHIBIT # 6



MATTRESS #2 AFTER TEST