



Vantin Testing



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检测
TESTING
CNAS L9713

Test Report

Report No.: W2207940

Date: 2022-06-28

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Applicant : ZHANGZHOU CAISHI E-COMMERCE CO., LTD.

Address : YUANHOU VILLAGE, JIUHU TOWN, LONGHAI CITY, FUJIAN PROVINCE

Sample Description:

Name of Product / Item : Baby Gym Play Mat/Baby Crib Mobile with Star Projection
 Item No. : N5075,1388,1389,1390
 Manufacturer : Zhangzhou Caishi E-Commerce Co.,Ltd
 Above sample information was submitted and/or identified by client

Quantity of Sample : 5 sets
 Other Information : WT20210830026-01
 Labeled Age Grading : 3+ months
 Requested Age Grading : 3 M+
 Age Group Assessed As Per Age Guideline : All ages
 Age Group Applied in Testing : Over 3 months
 Sample Receiving Date : 2021-08-31
 Sample Resubmitted Date : 2021-09-03, 2021-09-08
 Testing Period : 2021-08-31 TO 2021-09-10
 Power Source : 3 X 1.5V AAA

TEST REQUESTED

Standard of Consumer Safety Specification for Toy Safety :

- ASTM F963-17 : Physical and Mechanical Tests
- ASTM F963-17 : Clause 4.2 Flammability Test
- ASTM F963-17 : Clause 4.3.5 Heavy elements
- ASTM F963-17 : Clause 4.25 Battery-Operated Toys

CONCLUSION

PASS
PASS
PASS
PASS

**** AS REQUESTED BY THE APPLICANT, PLEASE REFER TO THE FOLLOWING PAGE(S) FOR DETAILS****

Signed for and on behalf of
Guangdong Vantin Testing Co., Ltd.
Shantou Branch



Nancy Wang
Toy Laboratory Manager



Test Report

ASTM F963 - 17 Standard Consumer Safety Specification for Toy Safety

As specified in ASTM F963-17 Standard Consumer Safety Specification for Toys Safety.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	<u>Safety Requirements</u>	
4.1	Material Quality	Pass
4.2	Flammability Test	Pass* Refer to Appendix 1 for details
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials on the tested specimen(s)	Pass Refer to Appendix 2 for details
4.3.5.2	Heavy Elements in Substrate Materials on the tested specimen(s)	Pass Refer to Appendix 2 for details
4.5	Sound-producing Toys	Pass
4.6	Small Objects	
4.6.1	Toys that are intended for children under 36 months of age	Pass*
4.7	Accessible Edges	
4.7.1	Accessible sharp edges of metal or glass	Pass
4.7.4	Edges on molded toys	Pass
4.8	Projections	Pass
4.9	Accessible Points	
4.9.1	Accessible Sharp Points	Pass
4.11	Nails & Fasteners	Pass
4.12	Plastic Film	Pass*

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<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.14	Cords, Straps, and Elastic	
4.14.1	Cords, Straps, and Elastics in Toys	Pass
4.18	Holes, Clearance & Accessibility of Mechanisms	
4.18.2	Circular Holes in Rigid Materials	Pass
4.22	Teethers and Teething Toys	Pass
4.23	Rattles	Pass*
4.25	Battery-Operated Toys	Pass Refer to Appendix 3 for details
4.26	Toys Intended to be Attached to a Crib or Playpen	
4.26.1	Protrusions	Pass
4.26.2	Crib Mobiles	Pass*
4.27	Stuffed & Beanbag-Type Toy	Pass
4.34	Balls	
4.34.1	Balls intended for children under 36 months of age	Pass*
5.	<u>Safety Labeling Requirements</u>	Pass*
6.	<u>Instructional Literature</u>	
6.1	Definition and Description	Pass
6.3	Mobiles	Pass*
6.5	Battery-Operated Toys	Pass
7.	<u>Producer's Markings</u>	
7.1	Producer's Markings	Pass
8.	<u>Test Method</u>	
8.5	Normal Use Testing	Pass
8.6	Abuse Test	Pass*
8.7	Impact Test	Pass*

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<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
8.8	Torque Test	Pass
8.9	Tension Test	Pass*
8.10	Compression Test	Pass

Note:

- Only applicable clauses was/were shown.
- * The test results are determined by the sample submitted by the client on 2021-09-08.



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Appendix 1:

Flammability Test (Clause 4.2)

A5. Flammability Testing procedure for Solids and Soft Toys

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
<u>Baby gym</u>	<u>DNI</u>	0.1
<u>Rattle</u>	<u>DNI</u>	0.1
<u>Mat 1</u>	<u>DNI*</u>	0.1
<u>Mat 2</u>	<u>DNI*</u>	0.1

Requirement

<u>Classification:</u>	<u>Acceptable Criteria</u>
Solid and Soft goods	DNI/ IBE Burning Rate ≤ 0.1 in/sec.

* The submitted sample(s) was/were tested, the above result only showed the most severe burn rate of the sample(s).

- DNI = Did Not Ignite
- IBE = Ignite But Self-Extinguished
- Ave. = Average
- * The test results are determined by the sample submitted by the client on 2021-09-08.



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Appendix 2:**ASTM F963-17 Standard Consumer Safety Specification for Toy Safety****▼ Heavy elements test - Total Lead content**

Method: ASTM F963-17 Clause 8.3

The item(s) was/were analyzed by ICP-OES.

Paint and similar surface coating materials:

Tested Item(s)	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	12	13		
Total Lead (Pb)	N.D.	N.D.	5	90

Toy substrate materials:

Tested Item(s)	Result (mg/kg)							MDL (mg/kg)	Limit (mg/kg)
	1	2	3	4	5	6	7		
Total Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	100

Tested Item(s)	Result (mg/kg)							MDL (mg/kg)	Limit (mg/kg)
	8	9	10	11	14	15	16		
Total Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	100

Specimen Description:

- 1 Dusty pink plastic
- 2 Orange plastic
- 3 White plastic
- 4 Green plastic
- 5 Transparent blue plastic
- 6 Blue plastic
- 7 Red plastic
- 8 Blue green plastic
- 9 Yellow plastic
- 10 Pink soft plastic
- 11 Blue soft plastic

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- 12 White coating (Sample Resubmitted Date:2021-09-03)
- 13 Brown coating (Sample Resubmitted Date:2021-09-03)
- 14 White rope
- 15 Multicolor fabric
- 16 Blue fabric

Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- As per client's request, test conducted on specified materials.



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▼ Heavy elements test – Migration of certain elements

Method: ASTM F963-17 Clause 8.3

The item(s) was/were analyzed by ICP-OES.

Surface Coatings and Substrates Other than Modeling Clay Included as Part of a Toy:

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>						<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	17	18	19	20	21	22		
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	90
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	500

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>						<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	23	24	25	26	27	28		
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	90
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	500

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Tested Item(s)	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	29	30	31	32		
Soluble Antimony (Sb)	N/A	N.D.	N.D.	N.D.	5	60
Soluble Arsenic (As)	N/A	N.D.	N.D.	N.D.	2.5	25
Soluble Barium (Ba)	N/A	N.D.	N.D.	N.D.	5	1000
Soluble Cadmium (Cd)	N/A	N.D.	N.D.	N.D.	5	75
Soluble Chromium (Cr)	N/A	N.D.	N.D.	N.D.	2.5	60
Soluble Lead (Pb)	N/A	N.D.	N.D.	N.D.	5	90
Soluble Mercury (Hg)	N/A	N.D.	N.D.	N.D.	2.5	60
Soluble Selenium (Se)	N/A	N.D.	N.D.	N.D.	5	500

Specimen Description:

- 17 Dusty pink plastic
- 18 Orange plastic
- 19 White plastic
- 20 Green plastic
- 21 Transparent blue plastic
- 22 Blue plastic
- 23 Red plastic
- 24 Blue green plastic
- 25 Yellow plastic
- 26 Pink soft plastic
- 27 Blue soft plastic
- 28 White coating (sample weight: 17.6mg)
- 29 Brown coating
- 30 White rope
- 31 Multicolor fabric
- 32 Blue fabric

Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)



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- mg/kg = ppm = parts per million
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical Correction factor (excluding special soluble Cadmium result).
- Filter paper was used instead of 0.45µm membrane filter in lab testing.
- N/A=Not Applicable, indicates the test portion(s) is/are less than 10mg, therefore such components was/were not tested for migration of certain elements, as specified in ASTM F963-17 Clause 8.3.
- Where the test portion has a mass of between 10mg and 100mg, the quantity of the appropriate elements shall be calculated as if 100mg of the test portion had been used.
- As per client's request, test conducted on specified materials.

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Appendix 3:

Battery-Operated Toys (Clause 4.25)

As specified in ASTM F963-17 Standard Consumer Safety Specification for Toys Safety.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	<u>Safety Requirements</u>	
4.25	Battery-Operated Toy	Pass
4.25.1	Marking on battery compartment	Pass
4.25.2	Maximum allowable direct current potential	Pass
4.25.3	Protection against charging non-rechargeable battery	Pass
4.25.4	Accessible batteries for toys intended for children less than 3 years old	Pass
4.25.5	Accessible batteries that can fit completely within small part cylinder	Pass
4.25.6	Isolation of batteries of different types or capacities	Pass
4.25.7	Temperature of battery surface	Pass
4.25.8	Overheating or combustion hazard after normal use and abuse test	Pass
4.25.9	Instruction on safe battery usage	Pass

Note:

- Only applicable clauses was/were shown.
- As per client's request, test conducted on specified sample.
- All result(s) is(are) extracted from report No.:W2108393, where the sample(s)/material(s) of sample is(are) claimed to be identical.



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Sample Photo





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*** End of Report ***