

Test Report

Number: SHAH01644996

Applicant: FUJIAN SENDA FOREIGN TRADE CO.,LTD
22F ZHIDI PLAZA, NO.89
WUSI ROAD, FUZHOU, FUJIAN

Date: 23 Feb, 2024

Attn: ELAINE

Sample Description:

One (1) group of submitted sample said to be :

Item Name : Table and chairs - grey & white; Table and chairs - natural & white; Storage unit - grey & white; Storage unit - white
Item No. : 312-111V80GY; 312-111V80ND; 311-068V80GY; 311-067V80WT
Quantity : 4
Labelled Age Group : 3+
Packaging Provided By Applicant : No
Buyer : NINGBO AOSOM INTERNET TECHNOLOGY CO., LTD
Country Of Origin : China

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted Samples	U.S. ASTM F963-17 Physical And Mechanical Tests Excluding- 5 Labelling Requirement -6 Instructional Literature -7 Producer's Markings	Pass See remark 1
Submitted Samples	U.S. ASTM F963-17 Flammability Test of Materials Other Than Textile Materials	Pass See remark 1
Tested Components of Submitted Sample	U.S. ASTM F963-23 for total Lead content in surface coating	Pass
Tested Components of Submitted Sample	U.S. ASTM F963-23 for total Lead content in non-surface coating materials	Pass
Tested Components of Submitted Sample	U.S. ASTM F963-23 for soluble elements content	Pass

Remark 1:

The submitted sample was not considered to be a toy. However as requested by the applicant, the sample was tested respect to the requirements as stated in this standard.

To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang



Bobo Yao
Assistant General Manager



Test Report

Number: SHAH01644996

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
tested component(s) of submitted sample(s)	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate)	Pass
tested component(s) of submitted sample(s)	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating	Pass
Tested Components of Submitted Sample	U.S. ASTM F963-17 on soluble heavy elements test	Pass
Tested Components of Submitted Sample	U.S. ASTM F963-17 for total Lead content in non-surface coating materials	Pass
Tested Components of Submitted Sample	U.S. ASTM F963-17 for total Lead content in surface coating	Pass
Tested Component of Submitted Sample	US Consumer Product Safety Improvement Act 2008 Title I, Sec 108(a) & (b)(3) and US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass
Tested Component of Submitted Sample	ASTM F963-23 section 4.3.8 on Phthalates content	Pass
Submitted Samples	U.S. ASTM F963-23 Physical and Mechanical Tests. Excluding- 5 Labelling Requirement -6 Instructional Literature -7 Producer's Markings	Pass See remark 2
Submitted Samples	U.S. ASTM F963-23 Flammability Test of Materials other than Textile Materials	Pass See remark 2

Remark 2:

The submitted sample was examined not a toy. However, as requested by the applicant, the submitted sample was assessed with reference to above requirements.

To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang



Bobo Yao
Assistant General Manager



Test Report

Number: SHAH01644996

Tests Conducted

1. Physical and Mechanical Tests

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Applicant's Specified Age Group for Testing: For ages 3 years and up.

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations: -

Test	FHSA	Parameter
Tip over Test	Section 1500.53(b)	3 times
Torque Test	Section 1500.53(e)	4 in-lbf
Tension Test	Section 1500.53(f)	15 lbf
Compression Test	Section 1500.53(g)	30 lbf

Section	Testing Items	Assessment
4.1	Material Quality	P
4.5	Sound-Producing Toys	NA
4.6.1	Toys Intended for Children under 36 Months (Small Objects)	NA
4.6.2	Mouth-Actuated Toys	NA
4.6.3	Toys And Games for 36 Months to 72 Months (Small Part Warning)	NA
4.7	Accessible Edges	P
4.8	Projections	NA
4.9	Accessible Points	P
4.10	Wires Or Rods	NA
4.11	Nails And Fasteners	P
4.12	Plastic Film	NA
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords, Straps, and Elastics	NA
4.15	Stability and Over-Load Requirements	P
4.16	Confined Spaces	NA
4.17	Wheels, Tires and Axles	NA
4.18	Holes, Clearance, and Accessibility of Mechanisms	NA
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.25	Battery-Operated Toys	NA
4.26	Toys Intended to be Attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA



Test Report

Number: SHAH01644996

Tests Conducted

Section	Testing Items	Assessment
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labelling Requirement	#
6	Instructional Literature	#
7	Producer's Markings	#
	- Name of Producer/Distributor (Toy / Package)	
	- Address (Toy / Package)	

Remark: The submitted samples were undergone the tests in accordance with section 8.5 through section 8.16 and 8.20 through 8.30 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass

NA = Not Applicable

= The item examined was not a toy. Therefore, the warning and other labeling requirements specified in sections 5, 6 and 7 did not apply.

Date Sample Received: Dec 19, 2023

Testing Period: Dec 19, 2023 to Jan 11, 2024

2. Flammability Test

As per section 4.2 of the ASTM Standard Consumer Safety Specification On Toy Safety F963-17.

Result = Ignited But Self-Extinguished before Burn Rate Could be Determined

Date Sample Received: Dec 19, 2023

Testing Period: Dec 19, 2023 to Jan 11, 2024

3. Total Lead (Pb) Content for Surface Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-23, test method CPSC-CH-E1003-09.1 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result in ppm		Reporting Limit (ppm)	Limit (ppm)
	(1+2)	(3)		
Lead(Pb)	ND	ND	20	90

Remark: ppm = parts per million = mg/kg

ND= Not detected (Less than reporting limit)



Test Report

Number: SHAH01644996

Tests Conducted
Tested Components: See component list in the last section of this report.

Date Sample Received: Dec 19, 2023
Testing Period: Dec 19, 2023 to Jan 04, 2024

4. Total Lead (Pb) Content for Non-surface Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-23, test method CPSC-CH-E1001-08.3 or/and CPSC-CH-E1002-08.3, was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result in ppm		Reporting Limit (ppm)	Limit (ppm)
	(4)	(5)		
Lead(Pb)	ND	ND	20	100

Remark: ppm = parts per million = mg/kg
ND= Not detected (Less than reporting limit)

Tested Components: See component list in the last section of this report.

Date Sample Received: Dec 19, 2023
Testing Period: Dec 19, 2023 to Jan 04, 2024

5. Soluble Elements Analysis (ASTM F963-23)

As per section 4.3.5.1(2) and 4.3.5.2(2)(b) of the ASTM standard consumer safety specification on toy safety F963-23, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (mg/kg)						Reporting Limit (mg/kg)	Limit (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(6)		
Sol. Barium (Ba)	ND	ND	ND	ND	13#	ND	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	2.5	25

Remark: ND= Not detected (Less than reporting limit)
= The analytical results were adjusted by subtracting analytical correction factor.

Tested components: See component list in the last section of this report.

Date Sample Received: Dec 19, 2023
Testing Period: Dec 19, 2023 to Jan 04, 2024



Test Report

Number: SHAH01644996

Tests Conducted

6. Total Lead (Pb) Content In Non-Surface Coating Materials (Substrate)

As per standard operating procedures for determining total Lead (Pb) in children's products, test method(s) CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(4)	ND	100
(5)	ND	100

The limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate).

Remark: ppm = Parts per million = mg/kg
Detection Limit = 20 mg/kg
ND=Not Detected

Tested Components: See component list in the last section of this report.

Date Sample Received: Dec 19, 2023
Testing Period: Dec 19, 2023 to Jan 04, 2024

7. Total Lead (Pb) Content in Surface Coating

As per standard operating procedure for determining Lead (Pb) in paint and other similar surface coatings (April 26, 2009), test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(1+2)	ND	90
(3)	ND	90

The limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating.

Remark: ppm = Parts per million = mg/kg
Detection Limit = 20 mg/kg
ND=Not Detected

Tested Components: See component list in the last section of this report.

Date Sample Received: Dec 19, 2023
Testing Period: Dec 19, 2023 to Jan 04, 2024

8. Soluble Heavy Metal Elements Analysis

As per section 4.3.5.1(2) and 8.3.2 / 4.3.5.2(2)(b) and 8.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, acid extraction method was used and heavy metal elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Test Item</u>	<u>Result (mg/kg)</u>						<u>Reporting Limit (mg/kg)</u>	<u>Limit (mg/kg)</u>
	(1)	(2)	(3)	(4)	(5)	(6)		
Sol. Barium (Ba)	ND	ND	ND	ND	13#	ND	5	1000



Test Report

Number: SHAH01644996

Tests Conducted

Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	2.5	25

Remark: Sol. = Soluble

= The results were adjusted by subtracting analytical correction factor.

Tested components: See component list in the last section of this report

Date Sample Received: Dec 19, 2023

Testing Period: Dec 19, 2023 to Jan 04, 2024

9. Total Lead (Pb) Content for Non-surface Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, test method CPSC-CH-E1001-08.3 or/and CPSC-CH-E1002-08.3, was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result in ppm		Reporting Limit (ppm)	Limit (ppm)
	(4)	(5)		
Lead(Pb)	ND	ND	20	100

Remark: ppm = parts per million = mg/kg

ND= Not detected (Less than reporting limit)

Tested Components: See component list in the last section of this report.

Date Sample Received: Dec 19, 2023

Testing Period: Dec 19, 2023 to Jan 04, 2024

10. Total Lead (Pb) Content for Surface Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, test method CPSC-CH-E1003-09.1 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result in ppm		Reporting Limit (ppm)	Limit (ppm)
	(1+2)	(3)		
Lead(Pb)	ND	ND	20	90

Remark: ppm = parts per million = mg/kg

ND= Not detected (Less than reporting limit)

Tested Components: See component list in the last section of this report.

Date Sample Received: Dec 19, 2023

Testing Period: Dec 19, 2023 to Jan 04, 2024



Test Report

Number: SHAH01644996

Tests Conducted

11. Phthalate Content

With reference to CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	Result (%)				Limit (%) (Max.)
	(1+2)	(3)	(4)	(5)	
Dibutyl phthalate (DBP)	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.1

The above limit was quoted according to 16 CFR part 1307 approved by U.S. Consumer Product Safety Commission (CPSC) for prohibition of children's toys and child care articles containing specified phthalates.

Remark: ND = Not Detected
Detection Limit = 0.01%

Tested Component(s): See component list in the last section of this report.

Date Sample Received: Dec 19, 2023
Testing Period: Dec 19, 2023 to Jan 04, 2024

12. Phthalates Content (ASTM F963-23)

With reference to CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	Result (%)				Detection Limit (%)	Limit (%) (Max.)
	(1+2)	(3)	(4)	(5)		
Dibutyl phthalate (DBP)	ND	ND	ND	ND	0.01	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.01	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	0.01	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	0.01	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	0.01	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.01	0.1

Remark: ND = Not Detected(Less than detection limit)

Tested Components: See component list in the last section of this report.

Date Sample Received: Dec 19, 2023
Testing Period: Dec 19, 2023 to Jan 04, 2024



Test Report

Number: SHAH01644996

Tests Conducted

13. Physical and Mechanical Tests

Test standard: ASTM Standard Consumer Safety Specification for Toy Safety F963-23.

Applicant's specified age group for testing: For ages 3 years and up.

The submitted samples were undergone the use and abuse tests in accordance with The Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations:

<u>Test</u>	<u>FHSA</u>	<u>Parameter</u>
Tip over test	---	3 times
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf
Compression test	Section 1500.53(g)	30 lbf

The submitted samples were undergone the tests in accordance with section 8.5 through section 8.16 and 8.20 through 8.30 on normal use, abuse and specific tests for different types of toys whichever is applicable.

Section	Requirement	Result
4.1	Material Quality (Visual check on cleanliness)	P
4.5	Sound-producing toys	NA
4.6.1	Toys intended for children under 36 months (Small objects)	NA
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for children at least 36 months but less than 72 months (Small part warning)	NA
4.7	Accessible edges	P
4.8	Projections	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	P
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and over-load requirements	P
4.16	Confined spaces	NA
4.17	Wheels, tires and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices (such as helmets, hats and goggles)	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA



Test Report

Number: SHAH01644996

Tests Conducted

Section	Requirement	Result
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	Yoyo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw entrapment in handles and steering wheels	NA
4.40	Expanding materials	NA
4.41	Toy chests	NA
5	Labelling requirement	#
6	Instructional literature	#
7	Producer's markings	
7.1	Name of producer/distributor	#
	Address	#
7.3	Toy chests	
7.3.1	Name and address of manufacturer/distributor/seller	NA
7.3.2	Code mark	NA

Abbreviation: P = Pass NA= Not Applicable

The item examined was not a toy. Therefore, the warning and other labeling requirements specified in sections 5, 6 and 7 did not apply.

Date Sample Received: Dec 19, 2023

Testing Period: Dec 19, 2023 to Jan 11, 2024



Test Report

Number: SHAH01644996

Tests Conducted

14. Flammability Test

Test requirement: Section 4.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, the sample was tested according to Annex A5 Flammability Testing Procedure for Solids and Soft Toys.

Result: Ignited but self-extinguished before burn rate could be determined.

Date Sample Received: Dec 19, 2023

Testing Period: Dec 19, 2023 to Jan 11, 2024

Tested components:

- (1) Grey coating on MDF (312-111V80GY)
- (2) Black coating on MDF (312-111V80GY)
- (3) Varnish on wood (311-068V80GY)
- (4) White plastic (311-067V80WT)
- (5) MDF
- (6) Grey fabric



Picture 1: Submitted Sample-312-111V80GY



Picture 2: Submitted Sample-312-111V80ND

Test Report

Number: SHAH01644996

Tests Conducted



Picture 3: Submitted Sample-311-068V80GY



Picture 4: Submitted Sample-311-067V80WT

End Of Report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

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