

Test Report

Number: SHAH01665394S2

Applicant: ZHEJIANG XIAOYUER INDUSTRY AND TRADE CO.LTD.
No. 9 GUIHUA ROAD,BAIHUASHAN
INDUSTRIAL PARK,WUYI,ZHEJIANG,CHINA
Attn: FALING SHI

Date: May 28, 2024

THIS IS TO SUPERSEDE REPORT NO.
SHAH01665394S1 DATED May 17, 2024

Sample Description:

Two (2) pieces of submitted sample said to be :

Item Name : Kid's Study Desk and Chair Set
Item No. : Z-011+Y-011,Z-012+Y-012
Date Sample Received : 11 Mar, 2024 & 13 May, 2024
Testing Period : 11 Mar, 2024 To 16 May, 2024

Tests Conducted:

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

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Bill Zhang
General Manager



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Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	ASTM F2613-22 Standard Consumer Safety Specification for Children's Chairs and Stools Excluding Clause 7 Marking and Labeling	Pass
Submitted Sample (Kid's Study Desk)	U.S. ASTM F963-23 Physical and Mechanical Tests. Excluding the warning and other labeling requirements Requirement of Section 5, 6 and 7	Pass (see remark)
	U.S. ASTM F963-23 Flammability Test of Materials other than Textile Materials	Pass (see remark)
Tested Components of Submitted Sample	U.S. ASTM F963-23 for total Lead content in surface coating	Pass
	U.S. ASTM F963-23 for total Lead content in non-surface coating materials	Pass
	U.S. ASTM F963-23 for soluble elements content	Pass
	ASTM F963-23 section 4.3.8 on Phthalates content	Pass
Tested component of submitted sample	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. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate)	Pass
	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

Remark:

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

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1 CHILDREN'S CHAIRS AND STOOLS

With reference to ASTM F2613-22 Standard Consumer Safety Specification for Children's Chairs and Stools, the submitted samples was subjected to the following tests:

Number of Sample Tested: _One_ (1) Piece

Initial inspection: No any damage was found

Executive Summary:

Clause	Test items	Verdict
5	General requirements	P
5.1	Wood parts	NA
5.2	Sharp points and edges	P
5.3	Small parts	P
5.4	Surface coating	P
5.5	Flammable solids	P
5.6	Toy accessories	NA
5.7	Scissoring, shearing, and pinching	P
5.8	Product that folds	NA
5.8.1	Latching and Locking Mechanisms	NA
5.8.2	Product without Latching and Locking Mechanisms	NA
5.9	Circular holes in rigid materials	P
5.10	Labeling	NA
5.11	Protective components	P
5.12	Strength Requirements	P
5.13	Stability	P
5.14	Head Entrapment	NA
6	Test Methods	-
7	Marking and Labeling	NR

Abbreviation: P=Pass F=Fail NA=Not Applicable NC=Not Conducted NR = Not Requested

Note:

The test was conducted when the sample seat height was adjusted to less than 15 in. from the floor as defined in the ASTM F2613-22.

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2 Physical and Mechanical Tests on Kid's Study Desk

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

Applicant's specified age group for testing: For ages 36 months 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	P
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	P
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

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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	#

Abbreviation: P = Pass **F = Fail** NA= Not Applicable NR=Not Requested

Remark:

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

3 Flammability Test on Table on Kid's Study Desk

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.

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4 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	Limit
	(11)	(ppm)	(ppm)
Lead(Pb)	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.

5 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 and CPSC-CH-E1002-08.3, were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result in ppm					Reporting Limit	Limit
	(1)	(2+3)	(4+5+6)	(7+8)	(12)	(ppm)	(ppm)
Lead(Pb)	ND	ND	ND	ND	ND	10	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.

6 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	Limit
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(11)	(12)	(mg/kg)	(mg/kg)
Sol. Barium (Ba)	ND	ND	ND	ND	ND	ND	20	ND	444	ND	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	25

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Remark: mg/kg = milligram per kilogram =ppm
Sol. = Soluble
ND= Not detected (Less than reporting limit)

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

7 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.)
	(2+3+4)	(5+6)	(7+8)		
Dibutyl phthalate (DBP)	ND	ND	ND	0.01	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	0.01	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	0.01	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	0.01	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	0.01	0.1
Dicyclohexyl phthalate (DCHP)	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.

8 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.

Tested Component (11)	Result (ppm) <20	Limit (ppm) 90
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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

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

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9 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 methods CPSC-CH-E1002-08.3 and CPSC-CH-E1001-08.3 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>
(1)	<10	100
(2+3)	<10	100
(4+5+6)	<10	100
(7+8)	<10	100
(12)	<10	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

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

10 Phthalate Content

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

<u>Test item</u>	<u>Result (%)</u>			<u>Limit (%) (Max.)</u>
	(2+3+4)	(5+6)	(7+8)	
Dibutyl phthalate (DBP)	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	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.

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Components List:

- (1) Natural color MDF.
- (2) Blue plastic. (drawer/ knob/ accessories/ chair)
- (3) Black plastic. (frame end)
- (4) White plastic. (on table frame)
- (5) Beige plastic. (accessories-reading panel)
- (6) Pale blue plastic. (flower feet cover)
- (7) Pink plastic. (frame end)
- (8) Grey plastic. (chair back)
- (9) Blue woven fabric. (chair)
- (10) Black non-woven fabric. (chair)
- (11) White coating on metal. (frame)
- (12) Silver color metal excluding coating. (frame tube)

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. 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. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shanghai Ltd.



To: ZHEJIANG XIAOYUER INDUSTRY AND TRADE CO.LTD.

Attention: FALING SHI

Date: May 28, 2024

Re: Report Revision Notification

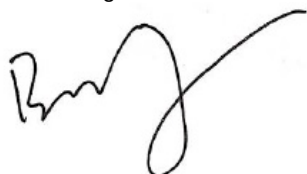
Intertek Testing Services Report Number SHAH01665394S1 Dated May 17, 2024.

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report Number **SHAH01665394S2**.

Reason for report revision: Revise sample image.

Thank you for your attention.

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Bill Zhang
General Manager

