

Test Report

Number: SHAH01741351

Applicant: DEYI CHILDREN PRODUCTS CO., LTD
BOTOU INDUSTRIAL ESTATE, CHASHAN TOWN,
DONGGUAN CITY, GUANGDONG, CHINA, 523396
Attn: DAORONG ZHU

Date: 06 Nov, 2024

Sample Description:

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

Item Name : Swing Set
Item No. : 344-065V00GN
Quantity : 1
Labelled Age Group : 6-36 months

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 sample	ASTM F1148-24 Standard Consumer Safety Performance Specification for Home Playground Equipment	Pass (See remark)
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 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 Components 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(s) of submitted sample(s)	U.S. CFR title 16(CPSC regulations) - Part 1303 total Lead content	Pass

To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang



Bobo Yao
Assistant General Manager



Test Report

Number: SHAH01741351

Tests Conducted

1. STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR HOME PLAYGROUND EQUIPMENT

With reference to ASTM F1148-24 Standard Consumer Safety Performance Specification for Home Playground Equipment, the submitted sample was subjected to the following tests:

Number of Sample Tested: One (1) Set

Initial inspection: No any damage was found

Applicant's Specification:

-Age grade for testing: For ages from 6 to 36 months

-Maximum load capacity of single user: 25kg

-Maximum total load capacity: 25kg

Executive Summary:

Clause	Test items	Verdict
1	Scope.	-
2	Referenced Documents.	-
3	Terminology	-
4	Materials and Manufacture	-
4.1	General	#1
4.1.3	Lead in Paint	P
5	General Requirements	-
5.1	Applicable to All Home Playground Equipment	NA
5.2	Small part	P
6	Performance Requirements	-
6.1	Head and Neck Entrapment	P
6.2	Acute Angles	P
6.3	Protrusions	P
6.4	Edges, Points, and Surfaces	P
6.5	Open Tubing	P
6.6	Crush and Shear Points	P
6.7	Holes and Slots	NA
6.8	Hardware	P
6.9	Hooks	NA
6.10	Hand Support: Hand Gripping/Grasping Components	NA
7	Requirements for Access	-
7.1	Rung Ladders, Stepladders and Stairways	NA
7.2	Handrails	NA
7.3	Guardrails and Protective Barriers	NA
8	Equipment	-
8.1	Swings	P
8.1.1	To-fro	P
8.1.2	Hangers	P
8.1.3	Minimum Ground Clearance	P
8.1.4	Suspended Swinging Elements	P
8.1.5	Lawn Swings	NA
8.1.6	Pendulum See-Saws	NA
8.1.7	Toddler Swings	P
8.1.8	Swing Set Stability	P
8.1.9	Spacing Between Adjacent Swing Elements	P
8.1.10	Spacing Between Swing Elements and Stationary Frame Members	NA
8.1.11	Suspended Swinging Element Impact Attenuation Testing	P
8.2	Slides	-
8.2.1	Slide Requirements	NA
8.2.2	Stability of Free-Standing Slides	NA



Test Report

Number: SHAH01741351

Tests Conducted

Clause	Test items	Verdict
8.2.3	Roller Slides	NA
8.3	Merry-Go-Rounds	NA
8.4	Ropes	NA
9	Equipment Layout	-
9.1	Play Structure Use Zone	#2
10	Installation	-
10.1	Installation Instructions and Information	P
11	Structural Integrity	-
11.1.1	Handholds, Footholds, and Horizontal Supporting Members	NA
11.1.2	Top Support Bar	P
11.1.3	Individual Suspended Units	P
11.1.4	Slides	NA
11.1.5	Rockers	NA
11.1.6	Merry-Go-Rounds	NA
11.1.7	Climbing Towers/Jungle Gyms	NA
11.1.8	Platforms	NA
11.1.9	Climbing Components	NA
12	Maintenance Instructions	P
13	Labeling and signage	P
14	Information	-
14.1	Information on Manufacturer or Distributor	P
14.2	Information on Playground Surfacing Materials	P
14.3	Operating Instructions	P
14.4	Lawn swings warning	NA
15	Keywords	-

Abbreviation: **P**=Pass; **NA**=Not Applicable

Remark:

#1.The assessment of materials durability constructed was not verified in an outdoor setting. However, it's manufacturer responsibility to ensure the compliance during designing, treatment process and manufacturing.

#2.The compliance with ASTM F1292 was not verified because the Play Structure Use Zone could not be evaluated in laboratory environment. It would be evaluated at where the equipment is actually assembled on. However, a specific surfacing guideline which based on "SECTION 4 OF the United States Consumer Product Safety Commission's (USCPSC) Outdoor Home Playground Safety Handbook" was included in the instruction manual to specifying the selection and assembly guide for protective surfacing.

Date Sample Received: Sep 26, 2024

Testing Period: Sep 26, 2024 to Oct 23, 2024



Test Report

Number: SHAH01741351

Tests Conducted

2.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 Components</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(1+2)	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: Sep 25, 2024
Testing Period: Sep 25, 2024 to Oct 09, 2024

3.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 Components</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(3+4+5)	ND	100
(6+7)	ND	100
(8+9)	ND	100
(10+11+12)	ND	100
(13)	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: Sep 25, 2024
Testing Period: Sep 25, 2024 to Oct 22, 2024



Test Report

Number: SHAH01741351

Tests Conducted

4. 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 (%)</u>
	(1+2)	(3+4+5)	(6+7)	(8)	(9)	<u>(Max.)</u>
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	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: Sep 25, 2024
Testing Period: Sep 25, 2024 to Oct 18, 2024

5. Total Lead (Pb) Content

As per U.S. Code of Federal Regulations title 16 part 1303, acid digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Components</u>	<u>Result (%)</u>	<u>Limit (%)</u>
(1+2)	ND	0.009

The limit was quoted according to CPSC Regulation CFR title 16 Part 1303 for Lead (Pb) content.

Remark: ND = Not Detected
Detection Limit = 0.002%
Tested Components: See component list in the last section of this report.

Date Sample Received: Sep 25, 2024
Testing Period: Sep 25, 2024 to Oct 09, 2024



Test Report

Number: SHAH01741351

Tests Conducted

Components List:

Tested components:

- (1) Green coating on metal
- (2) Gray coating on metal
- (3) White plastic (on nut)
- (4) Black plastic (buckle)
- (5) Green plastic (on rope)
- (6) Green plastic (seat)
- (7) Green plastic (rotary knob)
- (8) Dark blue soft plastic (foot pad)
- (9) Green soft plastic (rope)
- (10) Silvery metal bolt
- (11) Silvery metal nut
- (12) Silvery metal without coating (tube)
- (13) Silvery metal washer



Picture 1: Submitted sample



Picture 2: Submitted sample

End of report

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