

Test Report

No.: 68.452.24.3963.01

Date: 2024-11-04



Applicant: Fujian Zhangping D-road Forestry Co.,Ltd
Address: Fushan Industry District,Zhangping City,Fujian,China,364400
Product Name: Kid's Sandbox 2481
Country of Origin: China
Receipt Date of Sample: 2024-09-18, 2024-10-15, 2024-10-21
Date of Testing: 2024-10-08 ~ 2024-11-04
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. Textile Flammability Regulations SOR/2016-194	Pass
2. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical	Pass
3. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Materials Other Than Textile Materials	Pass
4. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Textile Materials	Pass
5. 16 CFR part 1303 Paints and similar surface coatings - Total Lead Content	Pass
6. ASTM F963-23 Section 4.3.5.1 - Total Lead Content Test (Paint and Similar Surface-Coating Materials)	Pass
7. ASTM F963-23 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)	Pass
8. ASTM F963-23 Section 4.3.5.1 & Section 4.3.5.2 - Soluble Heavy Elements	Pass
9. ASTM F963-23 Section 4.3.8 - Phthalates	Pass
10. CPSIA section 101(f) - Total Lead Content (surface coating)	Pass
11. 15 U.S.C. 1278a / CPSIA section 101(a)(2) - Total lead content (Substrate)	Pass
12. CPSIA, § 108, 16 CFR 1307- Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass

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Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. The test samples were specified by the client.

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Testing Center

Prepared by:

Authorized by:

Gianna



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Note:

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- (2) The results relate only to the items tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:
 - "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.
 - "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.

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Description of Tested Subject:

Sample	Description	Photo
A	Whole product	

T. No	Sample	Description
T1	001	Whole product (Kid's Sandbox 2481)
T2	002	Black non-woven fabric (Body)
T3	003	White plastic (Watertap)
T4	004	Grey plastic (Bucket)
T5	005	Blue plastic (Tray)
T6	006	Black coating (Board)
T7	007	Blue/ white woven fabric with white thread (Awning)
T8	008	Brown coating (Body)
T9	011	Yellow felt (Flag)
T10	012	Pink felt (Flag)
T11	013	Blue felt (Flag)
T12	014	White satin ribbon (Flag)
T13	015	Iridescent metal (Screw A)

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Test Result(s):

1. Textile Flammability Regulations SOR/2016-194

Test with reference to Flame Resistance - 45° Angle Test - One Second Flame Impingement

Sample 001 Black fabric	
Fabric Surface: Smooth	
Preliminary Testing: Face: width	
ORIGINAL	
BURN CODE	
1.	DNI
2.	DNI
3.	DNI
4.	DNI
5.	DNI
Average: DNI For #5 Specimens	

Sample 001 Blue and white striped fabric	
Fabric Surface: Smooth	
Preliminary Testing: Face: Length	
ORIGINAL	
BURN CODE	
1.	DNI
2.	DNI
3.	DNI
4.	DNI
5.	DNI
Average: DNI For #5 Specimens	

Remarks:

1. Burn code:

BB= Base Burn; The base of a specimen having a raised fibre surface is ignited or fused to a point where the damage is apparent from the underside of the specimen.

DNI = Did Not Ignite; The specimen is not ignited by the standard 1 s flame impingement.

IBE= Ignited But Extinguished; The specimen ignites but the flame extinguishes before reaching the stop-cord.

SB = Surface Burn; Surface fibres of a specimen having a raised fibre surface are burned; flaming spreads slower than the timed surface flash. The stop-cord is severed and a flame spread time is recorded. No base burn occurs.

SBBB = Surface Burn, Base Burn; Surface fibres of a specimen having a raised fibre surface are burned and then base burn occurs. The stop-cord is severed and a flame spread time is recorded.

SF = Surface Flash; Surface fibres of a specimen having a raised fibre surface are burned rapidly. The stop-cord is not severed and no flame spread time is recorded. No base burn occurs.

TSF = Timed Surface Flash; Surface fibres of a specimen having a raised fibre surface are burned rapidly (S 4 s). The stop-cord is severed and a flame spread time is recorded. No base burn occurs.

TSFBB = Timed Surface Flash, Base Burn; Surface fibres of a specimen having a raised fibre surface are burned rapidly (S 4 s). The stop-cord is severed and a flame spread time is recorded. The specimen continues to burn, eventually causing base burn.

2. A textile suspected of having a flame retardant treatment as evidenced by slow burning, difficulty of

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ignition,extinguishment, etc.,shall be tested after laundering and dry cleaning in accordance with CAN/CGSB-4.2 No.30.3.

3. If any of the below is recorded, test an additional five specimens: (a) does not ignite, (b) self-extinguishes before the flame reaches the stop cord or otherwise fails to burn the stop thread, or (c) burns too rapidly for any specified requirements.

2. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical

Sample	001
Labelled age range	only for children from 3 to 7
Requested age range	3-7 years
Age range in testing	Over 2 years
Age Group Assessed As per Age Guideline	Over 2 years

Clause	Requirement	Evaluation
4	Safety Requirements	--
4.1	Material Quality	P
4.6	Small Objects	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
4.11	Nails and Fasteners	P
4.12	Plastic Film	P
4.15	Stability and Over-load Requirements	P
5	Labeling Requirements	--
5.1.2	Tracking Label	P
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirements	P
5.8	Toys Intended to be Assembled By an Adult	P
5.15	Promotional Materials	P
6	Instructional Literature	--
6.1	Definition and Description	P
6.4	Toys Intended to be Assembled By an Adult	P
7	Producer's Markings	--
7.1	Name and Address of the Producer or Distributor	P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Note:

Only applicable sections were shown.

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3. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Materials Other Than Textile Materials

As per Section 4.2 of ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

Sample: 001

Result: Average burn rate < 0.1 inch/sec.

4. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Textile Materials

As per Section 4.2 of ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

Sample: 001

Result: 3.5 seconds or greater

5. 16 CFR part 1303 Paints and similar surface coatings - Total Lead Content

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
006	mg/kg	10.0	90	22.9	Pass
008	mg/kg	10.0	90	ND	Pass

6. ASTM F963-23 Section 4.3.5.1 - Total Lead Content Test (Paint and Similar Surface-Coating Materials)

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
006	mg/kg	10.0	90	22.9	Pass
008	mg/kg	10.0	90	ND	Pass

7. ASTM F963-23 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)

Test with reference to CPSC-CH-E1001-08.3:2012 or CPSC-CH-E1002-08.3:2012, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002	mg/kg	10.0	100	ND	Pass
003	mg/kg	10.0	100	ND	Pass
004	mg/kg	10.0	100	ND	Pass
005	mg/kg	10.0	100	ND	Pass
015	mg/kg	10.0	100	ND	Pass

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8. ASTM F963-23 Section 4.3.5.1 & Section 4.3.5.2 - Soluble Heavy Elements

Test with reference to ASTM F963-23 Section 8.3, determination by ICP-MS.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			002	003
Soluble Antimony (Sb)	5.0	60	ND	ND
Soluble Arsenic (As)	2.5	25	ND	ND
Soluble Barium (Ba)	5.0	1000	ND	ND
Soluble Cadmium (Cd)	5.0	75	ND	ND
Soluble Chromium (Cr)	5.0	60	ND	ND
Soluble Lead (Pb)	5.0	90	ND	ND
Soluble Mercury (Hg)	5.0	60	ND	ND
Soluble Selenium (Se)	5.0	500	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			004	005
Soluble Antimony (Sb)	5.0	60	ND	ND
Soluble Arsenic (As)	2.5	25	ND	ND
Soluble Barium (Ba)	5.0	1000	ND	ND
Soluble Cadmium (Cd)	5.0	75	ND	ND
Soluble Chromium (Cr)	5.0	60	ND	ND
Soluble Lead (Pb)	5.0	90	ND	ND
Soluble Mercury (Hg)	5.0	60	ND	ND
Soluble Selenium (Se)	5.0	500	ND	ND
Conclusion			Pass	Pass

Remark:

- The test results of the sample 004 is transferred from sample 004 of report 68.452.24.0259.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			006	007
Soluble Antimony (Sb)	5.0	60	ND	ND
Soluble Arsenic (As)	2.5	25	ND	ND
Soluble Barium (Ba)	5.0	1000	21.1	ND
Soluble Cadmium (Cd)	5.0	75	ND	ND
Soluble Chromium (Cr)	5.0	60	ND	ND
Soluble Lead (Pb)	5.0	90	ND	ND
Soluble Mercury (Hg)	5.0	60	ND	ND
Soluble Selenium (Se)	5.0	500	ND	ND
Conclusion			Pass	Pass

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Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			008	011
Soluble Antimony (Sb)	5.0	60	ND	ND
Soluble Arsenic (As)	2.5	25	ND	ND
Soluble Barium (Ba)	5.0	1000	ND	ND
Soluble Cadmium (Cd)	5.0	75	ND	ND
Soluble Chromium (Cr)	5.0	60	ND	ND
Soluble Lead (Pb)	5.0	90	ND	ND
Soluble Mercury (Hg)	5.0	60	ND	ND
Soluble Selenium (Se)	5.0	500	ND	ND
Conclusion			Pass	Pass

Note: - Mass of trace amount of sample 008 is 99.30 mg

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			012	013
Soluble Antimony (Sb)	5.0	60	ND	ND
Soluble Arsenic (As)	2.5	25	ND	ND
Soluble Barium (Ba)	5.0	1000	ND	ND
Soluble Cadmium (Cd)	5.0	75	ND	ND
Soluble Chromium (Cr)	5.0	60	ND	ND
Soluble Lead (Pb)	5.0	90	ND	ND
Soluble Mercury (Hg)	5.0	60	ND	ND
Soluble Selenium (Se)	5.0	500	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			014	
Soluble Antimony (Sb)	5.0	60	5.54	
Soluble Arsenic (As)	2.5	25	ND	
Soluble Barium (Ba)	5.0	1000	ND	
Soluble Cadmium (Cd)	5.0	75	ND	
Soluble Chromium (Cr)	5.0	60	ND	
Soluble Lead (Pb)	5.0	90	ND	
Soluble Mercury (Hg)	5.0	60	ND	
Soluble Selenium (Se)	5.0	500	ND	
Conclusion			Pass	

Remark: 1. Adjusted analytical result.

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9. ASTM F963-23 Section 4.3.8 - Phthalates

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					002	003
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					004	005
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					006	008
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND

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Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

10. CPSIA section 101(f) - Total Lead Content (surface coating)

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
006	mg/kg	10.0	90	22.9	Pass
008	mg/kg	10.0	90	ND	Pass

11. 15 U.S.C. 1278a / CPSIA section 101(a)(2) - Total lead content (Substrate)

Test with reference to CPSC-CH-E1001-08.3:2012 or CPSC-CH-E1002-08.3:2012, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002	mg/kg	10.0	100	ND	Pass
003	mg/kg	10.0	100	ND	Pass
004	mg/kg	10.0	100	ND	Pass
005	mg/kg	10.0	100	ND	Pass
015	mg/kg	10.0	100	ND	Pass

12. CPSIA, § 108, 16 CFR 1307- Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					002	003
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

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Lab 1 - Chemical testing and part of electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.24.3963.01

Date: 2024-11-04



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					004	005
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					006	008
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

-End of Test Report-

Regd. Office:

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