

Test Report

No.: 68.452.24.0257.02B

Date: 2024-11-26



Applicant: Fujian Zhangping D-road Forestry Co.,Ltd
Address: Fushan Industry District,Zhangping City,Fujian,China,364400
Sample Description: Sandbox 2076
Country of Origin: China
Receipt Date of Sample: 2024-02-26, 2024-11-18
Date of Testing: 2024-03-05 ~ 2024-04-09
2024-11-18 ~ 2024-11-25
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. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical	Pass
2. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Materials Other Than Textile Materials	Pass
3. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Textile Materials	Pass
4. ASTM F963-23 Section 4.3.5.1 - Total Lead Content Test (Paint and Similar Surface-Coating Materials)	Pass
5. ASTM F963-23 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)	Pass
6. ASTM F963-23 Section 4.3.5.1 & Section 4.3.5.2 - Soluble Heavy Elements	Pass
7. ASTM F963-23 Section 4.3.8 - Phthalates	Pass
8. 16 CFR Part 1303 - Total Lead Content	Pass
9. CPSIA section 101(f) -Total Lead Content (surface coating)	Pass
10. CPSIA section 101(a)(2) - Total Lead Content(Substrate)	Pass
11. CPSIA, § 108, 16 CFR 1307- Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass
12. Polycyclic Aromatic Hydrocarbons (15 PAHs)	Pass
13. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 51 & 52 - Phthalates Content	Pass
14. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
15. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 23 - Cadmium Content	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.
6. This report is based on report 68.452.24.0257.02A issued on 2024-05-31. Supplemental test items were tested as per client's request.

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Testing Center

Prepared by:

Authorized by:



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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 (Sandbox 2076)
T2	007	Iridescent metal (Bolt-E)
T3	010	Silvery metal (Bolt-F)
T4	011	Black plastic (Knob-F)
T5	012	Green fabric with transparent plastic film backing (Roof)
T6	013	White fabric with transparent plastic film backing (Roof)
T7	014	Blue fabric with transparent plastic film backing (Roof)
T8	015	Black non-woven (Base)

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T. No	Sample	Description
T9	016	Brown-yellow coating (Main body)
T10	018	Black plastic (Knob)
T11	019	Black non-woven fabric (Body)



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Test Result(s):

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

Sample	001
Labelled age range	Not suitable for children under 3 years
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
4.16	Confined Spaces	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.

2. 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: Did Not Ignite

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3. 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

Not Applicable

4. 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
016	mg/kg	10.0	90	ND	Pass

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

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

Sample	Unit	MDL	Limit	Result(s)	Conclusion
007	mg/kg	10.0	100	ND	Pass
010	mg/kg	10.0	100	ND	Pass
011+015	mg/kg	10.0	100	ND	Pass
012+013+014	mg/kg	10.0	100	ND	Pass

6. 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, analysis was performed by ICP-MS.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			011	012
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

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Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			013	014
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]	
			015	016
Soluble Antimony (Sb)	5.0	60	ND	ND
Soluble Arsenic (As)	2.5	25	ND	ND
Soluble Barium (Ba)	5.0	1000	ND	9.51
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 016 is 100.00 mg

- Remark:
- Adjusted analytical result.
 - The test results of the sample 011 is transferred from sample 008 of report 68.452.23.2022.
 - The test results of the sample 015 is transferred from sample 006 of report 68.452.23.2022.

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7. 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)	
					011+015	012+013+014
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	%	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)
					016
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND
Conclusion					Pass

8. 16 CFR Part 1303 - Total Lead Content

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

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

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9. 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
016	mg/kg	10.0	90	ND	Pass

10. CPSIA section 101(a)(2) - Total Lead Content(Substrate)

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

Sample	Unit	MDL	Limit	Result(s)	Conclusion
007	mg/kg	10.0	100	ND	Pass
010	mg/kg	10.0	100	ND	Pass
011+015	mg/kg	10.0	100	ND	Pass
012+013+014	mg/kg	10.0	100	ND	Pass

11. 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)	
					011+015	012+013+014
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	%	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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Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					016
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND
Conclusion					Pass

12. Polycyclic Aromatic Hydrocarbons (15 PAHs)

Test with reference to AfPS GS 2019:01PAK, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					018	019
Naphthalene	91-20-3	mg/kg	0.1	2	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	0.4	0.2
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	0.4	ND
Pyrene	129-00-0	mg/kg	0.1	-	0.7	0.3
Sum of 4 PAHs	-	mg/kg	0.1	5	1.50	0.50
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	0.1	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	1.6	0.5
Category					Category 2	Category 2
Conclusion					Pass	Pass

Remark: 1. Limit according to AfPS GS 2019:01PAK :

Parameter	Category 1	Category 2	Category 3
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	Materials intended to be taken into the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles intended for the use by children up to 3 years of age having long-term skin contact (more than 30s) within intended use	Materials that do not fall into category 1, with long-term skin contact (more than 30s) or repeated short-term skin contact within intended or foreseeable use		Materials that do neither fall into category 1 nor 2, with short-term skin contact (up to 30s) within foreseeable use	
		Used by children (mg/kg)	Other consumer products (mg/kg)	Used by children (mg/kg)	Other consumer products (mg/kg)
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene, Pyrene, Anthracene, Fluoranthene	Sum < 1	Sum < 5	Sum < 10	Sum < 20	Sum < 50
Naphthalene	< 1	< 2		< 10	
Sum 15 PAH	< 1	< 5	< 10	< 20	< 50

Remark:

- The test results of the sample 019 is transferred from sample 009 of report 68.452.24.3969.

13. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 51 & 52 - Phthalates Content

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					018	019
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	0.060	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND

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Date: 2024-11-26



Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	0.060	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	0.007	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	0.007	ND
Conclusion					Pass	Pass

Remark:

1. The test results of the sample 019 is transferred from sample 009 of report 68.452.24.3969.

14. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)

Test with reference to AfPS GS 2019:01PAK, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					018	019
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAha)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Remark:

1. The test results of the sample 019 is transferred from sample 009 of report 68.452.24.3969.

15. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 23 - Cadmium Content

Test with reference to EPA 3052:1996 microwave digestion or acid digestion, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
018	mg/kg	10.0	100	ND	Pass
019	mg/kg	10.0	100	ND	Pass

Remark:

1. The test results of the sample 019 is transferred from sample 009 of report 68.452.24.3969.

-End of Test Report-

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