



Test Report

Date : 2023-11-03
No. : HP23100675

Page 1 of 13

Applicant : Zhejiang Keyoudi Children Products Co Ltd
No 3 Dongyuan Road Baihe Town Tiantai County
Taizhou Zhejiang 317200 CN

Attn: Yuping Chen

Factory : PIN INTERNATIONAL (NINGBO) LTD
FLOOR 3 BUILDING 5(#14) NO 8 MIAOFENSHAN ROAD
XIAPU PIONEER PARK BEILUN DISTRICT NINGBO CHINA

Description of Samples : Three pieces of submitted sample said to be:
GO GROW BOX 13-15M (see attached photo)
STYLE/ITEM NO.: GGB-1-1
COUNTRY OF ORIGIN: CHINA
COUNTRY OF DESTINATION: JAPAN
AGE GRADING: 13-15 MONTHS

Date Samples Received : 2023-10-27

Date Tested : 2023-10-30 to 2023-11-03

Investigation Requested : Toxic materials analysis according to Section IV Toys, Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Law of Japan, Ministry of Health and Welfare Notice No. 370 on 28 December 1959, Notice No. 201 on 31 March 2006, Notice No. 153 on 31 March 2008, Notice No. 416 on 11 August 2008 and Notice No. 336 on 6 September 2010.

WONG Kai-ming, Ricky
Authorized Signatory



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Test Report

Date : 2023-11-03
No. : HP23100675

Page 2 of 13

Conclusions : The submitted sample(s) **complied** with the test requirements of:

Section IV Toys, Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Law of Japan, Ministry of Health and Welfare Notice No. 370 on 28 December 1959, Notice No. 201 on 31 March 2006, Notice No. 153 on 31 March 2008, Notice No. 416 on 11 August 2008 and Notice No. 336 on 6 September 2010 for toxic materials analysis

- Coloring agent (Clause B)
- Toys mainly containing Polyvinyl chloride (PVC) (Clause A6)
- Vinyl chloride coating (Clause A5)
- Paint coating (Clause A4)
- Phthalates content in plasticized material (Clause A7&A9)

A handwritten signature in black ink that reads 'Ricky'.

WONG Kai-ming, Ricky
Authorized Signatory

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Test Report

Date : 2023-11-03
No. : HP23100675

Page 3 of 13

Tested Components:

<u>Sample</u>	<u>Textile material</u>
1	Cord inside pole (GGB-1-1): white fabric
<u>Sample</u>	<u>Paper and wood</u>
2	Base and stacking blocks of dual rainbow ring stacker (GGB-1-1): light brown wood with transparent/purple/light blue/bluish green/light green/dull yellow/orange/red coating
3	Wooden box with picture cards (GGB-1-1): light brown wood with transparent/green/orange/white/red/black/deep purple/deep green multicolor coating
4	Ball pounding bench/mallet/balls (GGB-1-1): light brown wood with black/white/orange/green coating
<u>Sample</u>	<u>Materials other than textile, paper and wood</u>
5	Dog/polar bear/seal/dolphin/tiger (GGB-1-1): white PVC with light brown/black/deep brown/white/grey/pale yellow/pale pink/pale brown/brownish red/dark brown/brown coating
6	Inside cord (GGB-1-1): dull white rubber
7	Studs below sound key (GGB-1-1): black rubber
8	Screws on ball pounding bench/sound key (GGB-1-1): silver color iron with red/orange/yellow/green/blue/light blue/purple/light purple coating
9	Head of mallet (GGB-1-1): grey PP
10	Fixed studs of sound key (GGB-1-1): light beige ABS
11	Crayon: light purple
12	Crayon: beige
13	Crayon: pale blue
14	Crayon: deep blue
15	Crayon: bluish green
16	Crayon: deep green
17	Crayon: green
18	Crayon: light green
19	Crayon: light brown
20	Crayon: brown
21	Crayon: black
22	Crayon: deep grey
23	Crayon: light blue
24	Crayon: red
25	Crayon: pink
26	Crayon: reddish orange
27	Crayon: deep purple
28	Crayon: pale purple
29	Crayon: light pink
30	Crayon: orange
31	Crayon: brownish orange

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Test Report

Date : 2023-11-03
No. : HP23100675

Page 4 of 13

<u>Sample</u>	<u>Materials other than textile, paper and wood</u>
32	Crayon: yellow
33	Crayon: light yellow
34	Crayon: white
<u>Sample</u>	<u>Non-PVC coating</u>
35	Base and stacking blocks of dual rainbow ring stacker (GGB-1-1): transparent/purple/light blue/bluish green/light green/dull yellow/orange/red coating
36	Wooden box with picture cards (GGB-1-1): transparent/green/orange/white/red/black/deep purple/deep green multicolor coating
37	Ball pounding bench/mallet/balls (GGB-1-1): black/white/orange/green coating
38	Sound key (GGB-1-1): red/orange/yellow/green/blue/light blue/purple/light purple coating
<u>Sample</u>	<u>PVC coating</u>
39	Dog/polar bear/seal/dolphin (GGB-1-1): light brown/black/deep brown/white/grey/pale yellow/pale pink coating
40	Tiger (GGB-1-1): pale brown/black/white/brownish red/dark brown/brown coating

Note: The material type of the tested components and coating were declared by applicant

Test Results

- (1) Coloring agent in manufacturing standards for toys
Ref.: Clause B, Section IV Toys, Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Law of Japan, Ministry of Health and Welfare Notice No. 370 on 28 December 1959, Notice No. 201 on 31 March 2006, Notice No. 153 on 31 March 2008, Notice No. 416 on 11 August 2008 and Notice No. 336 on 6 September 2010

Textile

<u>Sample</u>	<u>Result</u>
1	Pass

Requirement on textile:

For items intended for children under 3 years old, migration of colour shall not be two times darker than the comparison standard.

For items intended for children over 3 years old of age and under 6 years of age, migration of colour shall not be three times darker than the comparison standard.

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Test Report

Date : 2023-11-03
No. : HP23100675

Page 5 of 13

Paper and wood

<u>Sample</u>	<u>Result</u>
2	Pass
3	Pass
4	Pass

Requirement on paper and wood:

For items intended for children under 6 years of age, migration of colour shall not be one time darker than the comparison standard.

Materials other than textile, paper and wood

<u>Sample</u>	<u>Result</u>
5	Pass
6	Pass
7	Pass
8	Pass
9	Pass
10	Pass
11	Pass
12	Pass
13	Pass
14	Pass
15	Pass
16	Pass
17	Pass
18	Pass
19	Pass
20	Pass
21	Pass
22	Pass
23	Pass
24	Pass
25	Pass
26	Pass
27	Pass
28	Pass
29	Pass
30	Pass
31	Pass
32	Pass
33	Pass
34	Pass

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Test Report

Date : 2023-11-03
No. : HP23100675

Page 6 of 13

Requirement on materials other than textile, paper and wood:

For items intended for children under 6 years of age, coloring matters should be selected from Schedule 1 of the Food Sanitation Law Enforcement Regulation or migration of color is not observed after testing.

(2) Toxic requirements for toys mainly containing Polyvinyl chloride (PVC)

Ref.: Clause A6, Section IV Toys, Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Law of Japan, Ministry of Health and Welfare Notice No. 370 on 28 December 1959, Notice No. 201 on 31 March 2006, Notice No. 153 on 31 March 2008, Notice No. 416 on 11 August 2008 and Notice No. 336 on 6 September 2010

Sample	Heavy metals (as lead)	Cadmium, $\mu\text{g/ml}^*$	Arsenic (as arsenious acid/ As_2O_3)	Consumption of potassium permanganate, $\mu\text{g/ml}^*$	Residue after evaporation, $\mu\text{g/ml}^*$
5	NDS	<0.25	NDS	<5	<5
Limit	1$\mu\text{g/ml}$	0.5	0.1$\mu\text{g/ml}$	50	50

NDS = The tested sample passed the test requirement because the color of test solution is not darker than that of the comparison standard solution.

For Heavy metals, tested sample shall contain less than 1.0 $\mu\text{g/ml}$ as lead.

For Arsenic, tested sample shall contain less than 0.1 $\mu\text{g/ml}$ as arsenious acid.

DS = The tested sample failed the test requirement because the color of test solution is darker than that of the comparison standard solution.

* = For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

(3) Vinyl chloride coating

Ref.: Clause A5, Section IV Toys, Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Law of Japan, Ministry of Health and Welfare Notice No. 370 on 28 December 1959, Notice No. 201 on 31 March 2006, Notice No. 153 on 31 March 2008, Notice No. 416 on 11 August 2008 and Notice No. 336 on 6 September 2010

Sample	Consumption of potassium permanganate, $\mu\text{g/ml}$	Residue after evaporation, $\mu\text{g/ml}$
1	<5	<5
Limit	50	50

Note: The PVC coating was tested together with the base material.

For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.



Test Report

Date : 2023-11-03
No. : HP23100675

Page 7 of 13

(4) Paint coating

Ref.: Clause A4, Section IV Toys, Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Law of Japan, Ministry of Health and Welfare Notice No. 370 on 28 December 1959, Notice No. 201 on 31 March 2006, Notice No. 153 on 31 March 2008, Notice No. 416 on 11 August 2008 and Notice No. 336 on 6 September 2010

Sample		Soluble metal, µg/g		
No.	Weight, mg	Lead	Cadmium	Arsenic
35	≥100	<2	<2	<2
36	≥100	<2	<2	<2
37	≥100	<2	<2	<2
38	≥100	<2	<2	<2
39	≥100	<2	<2	<2
40	79	<2	<2	<2
Limit		90	75	25

Note

When there was insufficient uniform coating to produce the test portion of 100 mg from sample, the quantities of the elements were calculated as if 100 mg of test portion had been used. The actual weights of the specified coatings used for analysis was shown in unit of mg.

µg/g = microgram per gram

mg = milligram

≥100 = larger or equal to 100mg in one sample for soluble element test

For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, after adjusted by subtracting the analytical correction factor in accordance with JETRO Specifications, Standards and Testing Methods for Food stuffs, implements, Containers and Packaging, Toys, Detergents, January 2009 Section III clause A.4.

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Test Report

Date : 2023-11-03
No. : HP23100675

Page 8 of 13

- (5) Phthalates content in plasticized material (in composite condition)
Ref.: Clause A7&A9, Section IV Toys, Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Law of Japan, Ministry of Health and Welfare Notice No. 370 on 28 December 1959, Notice No. 201 on 31 March 2006, Notice No. 153 on 31 March 2008, Notice No. 416 on 11 August 2008 and Notice No. 336 on 6 September 2010

Method for PVC material: Japan Food Sanitation Law, Notice 0906 No. 4 by Gas Chromatography with Mass Selective Detector
Method for polyurethane and rubber material: CPSC-CH-C1001-09.3 by Gas Chromatography with Mass Selective Detector

Sample	Result, % (w/w)					
	DBP	BBP	DEHP	DINP	DNOP	DIDP
5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
6,7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Limit	0.1	0.1	0.1	0.1	0.1	0.1

Note

The requirements of DINP, DNOP and DIDP are only applicable on materials which are intended to come into contact with mouths of children.

DBP = Di-n-butyl phthalate
BBP = Benzyl-n-butyl phthalate
DEHP = Di (2-ethylhexyl) phthalate
DINP = Diisononyl phthalate
DNOP = Di-n-octyl phthalate
DIDP = Diisodecyl phthalate
%(w/w) = percentage weight per weight

For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

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Test Report

Date : 2023-11-03
No. : HP23100675

Page 9 of 13

Appendix for Photos of the Submitted Sample



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Test Report

Date : 2023-11-03
No. : HP23100675

Page 10 of 13



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Test Report

Date : 2023-11-03
No. : HP23100675

Page 11 of 13



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Test Report

Date : 2023-11-03
No. : HP23100675

Page 12 of 13



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Test Report

Date : 2023-11-03
No. : HP23100675

Page 13 of 13



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11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
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