



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No : AW2024698(9) Date: 20 Dec 2018

Application No : LW221685(2)

Applicant : KING YIP (DONG GUAN) PRINTING & PACKAGING FACTORY LTD.  
DANING ADMINISTRATIVE DISTRICT, HUMEN,  
TOWN, DONGGUAN, GUANGDONG

Sample Description : Two (2) groups of submitted samples stated to be :

(A) One (1) item of toy sample.

Item Name : Succulents in a Book  
ISBN : 9781419737510  
P.O. No. : 132297-0  
Manufacture Date : Dec 2018  
No. of Samples submitted : 6 pcs  
Client advise Age grading : Over 8 years old  
Country of Origin : China

(B) One (1) paint samples (refer to page 15 for details) stated to be used for (A).

Date Received : 14 Dec 2018, 18 Dec 2018

Test Period : 14 Dec 2018 to 19 Dec 2018

Test Requested : I. ASTM F963-17 Standard of Consumer Safety Specification for Toy Safety :

- Physical and Mechanical Tests;
- Flammability Test;
- Heavy Elements Test (Clause 4.3.5);

II. U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 101 : Children's Products Containing Lead; Lead Paint Rule;

III. 16 CFR Part 1307 - Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates;

IV. Di (2-Ethylhexyl) Phthalate (DEHP), Butyl Benzyl Phthalate (BBP), Di-Butyl Phthalate (DBP), Di-(iso-decyl) Phthalate (DIDP) and Di-n-hexyl Phthalate (DnHP) content stated in the consent judgment No. BG07350969 based on the California Proposition 65;

V. EN71 : Part 1 : 2014 (E) - Physical and Mechanical Properties;

VI. EN71 : Part 2 : 2011 + A1 : 2014 (E) - Flammability test;

VII. EN71 : Part 3 : 2013 + A2 : 2017(E) - Migration of certain elements (Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium (III), Chromium (VI), Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin, Organic Tin and Zinc);

For and on behalf of

Yubiao Testing and Certification Laboratory (Shenzhen) Limited

Authorized Signature :



Samuel  
Assistant Manager  
Toys and Material Division

Grace

Sun Xiaoqing / Grace  
Assistant Manager  
Toys and Material Division

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Yubiao Testing and Certification Laboratory (Shenzhen) Limited

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Test Requested : VIII. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 23 and its amendment Regulation (EC) No.552/2009, (EU) No. 494/2011 and No.835/2012 - Cadmium content;

IX. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII and its amendment Regulation (EC) No.552/2009, (EU) No.2015/326 - Phthalates contents;

X. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 50 and its amendment Regulation (EC) No.552/2009, (EU) No.1272/2013 and No.2015/326 - Polycyclic aromatic hydrocarbons content;

XI. AS/NZS 8124 : Part 1 : 2016 - Safety Aspects Related to Mechanical and Physical Properties;

XII. AS/NZS 8124 : Part 2 : 2016 - Flammability;

XIII. AS/NZS 8124 : Part 3 : 2012 + Amdt 1 : 2016 - Migration of Certain Elements.

Test Method : I. As stated in the above specification. Acid digestion followed by Atomic Absorption Spectrophotometry analysis and Inductively Coupled Plasma Spectrometry (ICP-OES) analysis for total lead analysis. Diluted acid extraction followed by Inductively Coupled Plasma Spectrometry (ICP-OES) analysis for soluble heavy element analysis;

II. With reference to CPSC-CH-E1003-09.1 and CPSC-CH-E1002-08.3 and CPSC-CH-E1001-08.3, followed by Atomic Absorption Spectrophotometry and Inductively Coupled Plasma Spectrometry (ICP-OES) analysis;

III to IV. With reference to CPSC-CH-C1001-09.4, followed by Gas Chromatography - Mass Spectrometer (GC-MS) analysis;

V to VII. As stated in above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) ;

VIII. Acid digestion followed by Inductively Coupled Plasma Spectrometry (ICP-OES) analysis;

IX. Phthalate analysis was determined by Gas Chromatography;

X. With reference to AfPS GS 2014 : 01 PAK;

XI to XIII. As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES).

Test Result : Refer to the results on page 4 to 12.

For and on behalf of  
Yubiao Testing and Certification Laboratory (Shenzhen) Limited

Authorized Signature :

Ouyang Jingde / Samuel  
Assistant Manager  
Toys and Material Division

Sun Xiaoqing / Grace  
Assistant Manager  
Toys and Material Division

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Conclusion	Test Item	Result
I.	ASTM F963-17 - Physical and Mechanical Tests - Flammability Test - Heavy Elements Test (Clause 4.3.5)	Passed Passed Passed
II.	U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 101	Passed
III.	16 CFR Part 1307 - Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates	Passed
IV.	DEHP, BBP, DBP, DIDP and DnHP content stated in the consent judgment No. BG07350969 based on the California Proposition 65	Passed
V.	EN71 : Part 1 : 2014(E)	Passed
VI.	EN71 : Part 2 : 2011 + A1 : 2014(E)	Passed
VII.	EN71 : Part 3 : 2013+ A2 : 2017(E)	Passed
VIII.	Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 23 and its amendment Regulation (EC) No.552/2009, (EU) No. 494/2011 and No.835/2012 - Cadmium content	Passed
IX.	Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII and its amendment Regulation (EC) No.552/2009, (EU) No.2015/326 - Phthalates contents	Passed
X.	Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 50 and its amendment Regulation (EC) No.552/2009, (EU) No. 1272/2013, No.2015/326 - Polycyclic aromatic hydrocarbons content	Passed
XI.	AS/NZS 8124 : Part 1 : 2016	Passed
XII.	AS/NZS 8124 : Part 2 : 2016	Passed
XIII.	AS/NZS 8124 : Part 3 : 2012 + Amdt 1 : 2016	Passed

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Authorized Signature :

Ouyang Jingde / Samuel  
Assistant Manager  
Toys and Material Division

Sun Xiaoqing / Grace  
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Test Result :

Tested age group : For ages over 8 years old

### I. ASTM F963-17

#### a. Physical and Mechanical Tests

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
4.1	Material Quality - Visual Inspection	C
4.11	Nails and fasteners	C
4.12	Plastic film	C
5	Labeling requirements	
5.16	Promotional materials	C
6	Instructional literature	
6.1	Definition and description	C
7	Producer's markings	
7.1	Producer's markings	C

Remark : The sample(s) were subjected to by CMA Testing and abuse tests in according with Clause 8.5 Normal Use Testing, 8.7 Impact test, 8.8 Torque test, 8.9 Tension test, 8.10 Compression test and 8.12 Flexure test whichever was applicable.

#### b. Flammability Test

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
4.2	Flammability 16 CFR 1500.3 (c) (6) (vi)	C

##### Materials other than textiles

Test method : Annex A5 (16 CFR 1500.44)

The burning rate of the most severe part = DNI

Note : Maximum permissible burning rate = 0.1 in/sec.  
DNI = Did Not Ignite

\* Abbreviation : C = Complied



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### I. ASTM F963-17

#### c. Heavy Elements Test

Clause	Title/Description	Remark*
4.3.5.1 (1)	Paint and Similar Surface-Coating, total lead	C

Test Item	Total Lead
Permissible Limit (mg/kg)	90
Sample	Test Result (mg/kg)
9	<15

4.3.5.1 (2)	Paint and Similar Surface-Coating, soluble heavy elements	C
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Test Item	As	Hg	Se	Cd	Sb	Pb	Cr	Ba
Maximum Permissible Limit (mg/kg)	25	60	500	75	60	90	60	1000
Sample	Test Result (mg/kg)							
1	NA	NA	NA	NA	NA	NA	NA	NA

Sample	1
Sample weight	<10mg

4.3.5.2 (2)(a)	Toy substrate materials, total lead content	C
----------------	---	---

Test Item	Total Lead
Maximum Permissible Limit (mg/kg)	100
Sample	Test Result (mg/kg)
2	<15
3	<15
4	20



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Test Result :

### I. ASTM F963-17

#### c. Heavy Elements Test

Clause	Title/Description	Remark*
4.3.5.2 (2)(b)	Toy substrate materials, soluble heavy elements	C

Test Item	As	Hg	Se	Cd	Sb	Pb	Cr	Ba
Maximum Permissible Limit (mg/kg)	25	60	500	75	60	90	60	1000
Sample	Test Result (mg/kg)							
2	<5	<5	<5	<5	<5	<5	<5	<20
3	<5	<5	<5	<5	<5	<5	<5	<20

- Note :
- < denotes less than
  - ≥ denotes greater than or equal to
  - NA denotes not applicable
  - As = Arsenic; Hg = Mercury; Se = Selenium; Cd = Cadmium; Sb = Antimony; Pb = Lead; Cr = Chromium; Ba = Barium
  - The samples with available sample weight less than 10 mg were not tested according to U.S. ASTM Standard F963-17 (Clause 8.3.3.6 (2))

Sample	2	3
Sample weight	≥100mg	≥100mg

### II. Consumer Product Safety Improvement Act of 2008 - Sec. 101: Children's Products Containing Lead; Lead Paint Rule

#### For materials and substrate

Test Item	Total Lead
Permissible Limit (mg/kg)	100
Sample	Test result (mg/kg)
2	<15
3	<15
4	20





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### II. Consumer Product Safety Improvement Act of 2008 - Sec. 101: Children's Products Containing Lead; Lead Paint Rule

#### For paint and similar surface-coating materials

Test Item	Total Lead
Permissible Limit (mg/kg)	90
Sample	Test result (mg/kg)
9	<15

Note : • < denotes less than

### III. 16 CFR Part 1307 - Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates

Test Item	DEHP	DBP	BBP	DINP	DIBP	DPENP	DHEXP	DCHP
Maximum Limit (% w/w)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Sample	Result (% w/w)							
2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Note : • < denotes less than

- % w/w denotes percentage by weight
- DEHP = Di (2-ethylhexyl) Phthalate; DBP = Dibutyl Phthalate; BBP = Butyl Benzyl Phthalate; DINP = Diisononyl Phthalate; DIBP = diisobutyl phthalate; DPENP = di-n-pentyl phthalate; DHEXP = di-n-hexyl phthalate ; DCHP = dicyclohexyl phthalate

### IV. DEHP, BBP, DBP, DIDP and DnHP content

Test item	Test Results (%)			Maximum permissible level (%)
	Sample			
	2	3	9	
Di (2-ethylhexyl) Phthalate (DEHP)	<0.01	<0.01	<0.01	0.1*
Butyl Benzyl Phthalate (BBP)	<0.01	<0.01	<0.01	0.1*
Di-Butyl Phthalate (DBP)	<0.01	<0.01	<0.01	0.1*
Di-(iso-decyl)Phthalate (DIDP)	<0.01	<0.01	<0.01	0.1*
Di-n-hexyl Phthalate (DnHP)	<0.01	<0.01	<0.01	0.1*

Note : • % w/w denotes percentage by weight

- < denotes less than
- \* The limit is referred to the consent judgment no. BG07350969 based on the California Proposition 65 (Superior Court of the State of California, county of Alameda), for toys and child care articles



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Tested age group : For ages over 8 years old

### V. EN71 : Part 1 : 2014(E)

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
4	General requirements	
4.1	Material cleanliness	C
4.7	Edges	C
4.8	Points and metallic wires	C
6	Packaging	C
7	Warnings, markings and instructions for use	
7.1	General	C

### VI. EN71 : Part 2 : 2011 + A1 : 2014(E)

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
4.1	General requirements	C

Note : No cellulose nitrate and material with same behaviour in fire was detected

\*Abbreviation : C = Complied





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Test Result :

### VII. EN 71 : Part 3 : 2013 + A2 : 2017(E)

Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Test Result (mg/kg)						
		Sample						
		1	2	3	5	6	7	8
Aluminium (Al)	70,000	NA	<100	<100	<100	<100	<100	<100
Antimony (Sb)	560	NA	<5	<5	<5	<5	<5	<5
Arsenic (As)	47	NA	<5	<5	<5	<5	<5	<5
Barium (Ba)	18,750	NA	<20	<20	<20	<20	<20	<20
Boron (B)	15,000	NA	<100	<100	<100	<100	<100	<100
Cadmium (Cd)	17	NA	<5	<5	<5	<5	<5	<5
Chromium (III)	460	NA	<1	<1*	<1	<1	<1	<1*
Chromium (VI)	0.2	NA	<0.15	<0.15*	<0.15	<0.15	<0.15	<0.15*
Cobalt (Co)	130	NA	<5	<5	<5	<5	<5	<5
Copper (Cu)	7,700	NA	<5	<5	<5	<5	<5	<5
Lead (Pb)	160	NA	<5	<5	<5	<5	<5	<5
Manganese (Mn)	15,000	NA	<100	<100	<100	<100	<100	<100
Mercury (Hg)	94	NA	<5	<5	<5	<5	<5	<5
Nickel (Ni)	930	NA	<5	<5	<5	<5	<5	<5
Selenium (Se)	460	NA	<5	<5	<5	<5	<5	<5
Strontium (Sr)	56,000	NA	<100	<100	<100	<100	<100	<100
Tin (Sn)	180,000	NA	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Organic tin	12	NA	-	-	-	-	-	-
Zinc (Zn)	46,000	NA	<100	<100	<100	<100	<100	<100

- Note :
- < denotes less than
  - ≥ denotes greater than or equal to
  - NA denotes not applicable
  - For samples of migrated chromium content lower than migration limit of chromium (VI), no speciation test for chromium (III) and chromium (VI) were conducted. The results were derived from that of total chromium
  - For samples of migrated tin content calculated as tributyl tin lower than migration limit of organic tin, no organic tin test was conducted. Organic tin results were derived from that of total tin
  - The samples with available sample weight less than 10 mg were not tested according to EN 71 : Part 3 : 2013 + A2 : 2017(E)
  - \*Chromium (VI) test was conducted. Chromium (III) result was calculated by subtracting Chromium (VI) result from Chromium result

Sample	1	2	3	5	6	7	8
Sample weight	<10mg	≥100mg	≥100mg	≥100mg	≥100mg	≥100mg	≥100mg



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**VIII. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 23 and its amendment Regulation (EC) No.552/2009, (EU) No. 494/2011 and No. 835/2012 - Cadmium content**

For paints on painted articles

Test item	Total Cadmium(mg/kg)
Permissible Limit (mg/kg)	1000
Sample	Test Result (mg/kg)
9	<5

For plastic material

Test item	Total Cadmium
Permissible Limit (mg/kg)	100
Sample	Test Result (mg/kg)
2	<5
3	<5

- Note :
- < denotes less than
  - ND denotes Not Detected (Method detection limit of total cadmium is 5 mg/kg)

**IX. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII and its amendment Regulation (EC) No.552/2009, (EU) No.2015/326 - Phthalates contents**

Test Item	DEHP	DBP	BBP	DINP	DIDP	DNOP
Sample	Test Result (% w/w)					
2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Requirement of Regulation (EC) No. 1907/2006, Annex XVII

1. Concentration of DEHP, DBP and BBP of plasticized materials in toys and childcare articles shall not exceed 0.1% by weight.
2. Concentration of DINP, DIDP and DNOP of plasticized materials in toys and childcare articles which can be placed in the mouth by children shall not exceed 0.1% by weight.

- Note :
- % w/w denotes percentage by weight
  - < denotes less than
  - DEHP = Di (2-ethylhexyl) Phthalate; DBP = Dibutyl Phthalate; BBP = Butyl Benzyl Phthalate; DINP = Diisononyl Phthalate; DIDP = Diisodecyl Phthalate; DNOP = Di-n-octyl Phthalate



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Test Result :

**X. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 50 and its amendment Regulation (EC) No.552/2009, (EU) No. 1272/2013, No.2015/326 - Polycyclic aromatic hydrocarbons content**

For toys and childcare articles

PAHs	Result (mg/kg)			Permissible limit (mg/kg)
	1	2	3	
(i) Benzo[a]anthracene	NA	<0.1	<0.1	0.5
(ii) Chrysene	NA	<0.1	<0.1	0.5
(iii) Benzo[b]fluoranthene	NA	<0.1	<0.1	0.5
(iv) Benzo[k]fluoranthene	NA	<0.1	<0.1	0.5
(v) Benzo[j]fluoranthene	NA	<0.1	<0.1	0.5
(vi) Benzo[e]pyrene	NA	<0.1	<0.1	0.5
(vii) Benzo[a]pyrene	NA	<0.1	<0.1	0.5
(viii) Dibenzo[a,h]anthracene	NA	<0.1	<0.1	0.5

Note :   
 • mg/kg denotes milligram per kilogram   
 • < denotes less than   
 • NA denotes Not Available

Tested age group : For ages over 8 years old

**XI. AS/NZS 8124 : Part 1 : 2016**

Clause	Title/Description	Remark*
4	Requirements	
4.1	Normal use	C
4.3	Material	
4.3.1	Material quality	C
4.10	Plastic film or plastic bags in packaging and in toys	C

**XII. AS/NZS 8124 : Part 2 : 2016**

Clause	Title/Description	Remark*
4.1	General	C

Note : No cellulose nitrate and material with same behaviour in fire was detected

\* Abbreviation : C = Complied





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### XIII. AS/NZS 8124 : Part 3 : 2012 + Amdt 1 : 2016

Test Item	As	Hg	Se	Cd	Sb	Pb	Cr	Ba
Maximum permissible limit (mg/kg)	25	60	500	75	60	90	60	1000
Sample	Test Result (mg/kg)							
1	NA	NA	NA	NA	NA	NA	NA	NA
2	<5	<5	<5	<5	<5	<5	<5	<20
3	<5	<5	<5	<5	<5	<5	<5	<20
5	<5	<5	<5	<5	<5	<5	<5	<20
6	<5	<5	<5	<5	<5	<5	<5	<20
7	<5	<5	<5	<5	<5	<5	<5	<20
8	<5	<5	<5	<5	<5	<5	<5	<20

- Note :
- < denotes less than
  - ≥ denotes greater than or equal to
  - NA denotes not available
  - As = Arsenic; Hg = Mercury; Se = Selenium; Cd = Cadmium; Sb = Antimony; Pb = Lead; Cr = Chromium; Ba = Barium
  - The samples with available sample weight less than 10 mg were not tested according to AS/NZS 8124 : Part 3 : 2012 + Amdt 1 : 2016 (Clause 7)

Sample	1	2	3	5	6	7	8
Sample weight	<10mg	≥100mg	≥100mg	≥100mg	≥100mg	≥100mg	≥100mg



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### Appendix



LW221685(2)

- Test Parts :
1. Pale green coating (eyelet of page)
  2. Transparent plastic sheet (sleeve)
  3. White paper with multi-color printings and glue (cover)
  4. Golden metal (eyelet of pages)
  5. White paper (sleeve)
  6. White thin paper with multi-color printings (succulents pattern)
  7. White thick paper with multi-color printings (pages)
  8. Grey paper (spine)
  9. Pale green paint (used for eyelet of page)

\*\*\*\*\* End of Report \*\*\*\*\*