



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No : AW2019478(9)

Date: 12 Oct 2018

Application No : LW217121(3)

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 : Birds in a Book  
ISBN : 9781419733932  
P.O. No. : 131540-4  
Manufacture Date : Oct 2018  
No. of Samples submitted : 6 pieces  
Client advise Age grading : Over 8 years old  
Country of Origin : China

(B) One (1) Coating samples (refer to page 13 for details) stated to be used for (A).

Date Received : 09 Oct 2018, 12 Oct 2018.

Test Period : 09 Oct 2018 to 12 Oct 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);  
VIII. 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 ;

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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Test Requested : IX. 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 , No.835/2012 and No.2016/217 - Cadmium content

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;

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 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, 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) and Liquid Chromatograph-Inductively Coupled Plasma Mass Spectrometry (LC-ICP-MS);

VIII. Phthalate analysis was determined by Gas Chromatography;

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

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 and its amendment Regulation (EC) No.552/2009, (EU) NO.2015/326 - Phthalates contents	Passed
IX.	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, No.835/2012 and No.2016/217 - Cadmium content	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

For and on behalf of

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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
4.7	Accessible edges 16 CFR 1500.49 Sharp metal or glass edges	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 the normal use 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)
1	<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)							
9	NA	NA	NA	NA	NA	NA	NA	NA

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	<15

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



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Test Result :

### I. ASTM F963-17

#### c. Heavy Elements Test

Sample	2	3	9
Sample weight	≥100mg	≥100mg	<10mg

- 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))

### 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

<u>Test Item</u>	Total Lead
Permissible Limit (mg/kg)	90
Sample	Test result (mg/kg)
1	<15

#### For materials and substrate

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

- Note : • < denotes less than



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### 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)							
1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
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

- 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			
	1	2	3	
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						
		2	3	5	6	7	8	9
Aluminium (Al)	70,000	<100	110	<100	<100	<100	1141	NA
Antimony (Sb)	560	<5	<5	<5	<5	<5	<5	NA
Arsenic (As)	47	<5	<5	<5	<5	<5	<5	NA
Barium (Ba)	18,750	<20	<20	<20	<20	<20	<20	NA
Boron (B)	15,000	<100	<100	<100	<100	<100	<100	NA
Cadmium (Cd)	17	<5	<5	<5	<5	<5	<5	NA
Chromium (III)	460	<1*	<1	<1	<1	<1	2*	NA
Chromium (VI)	0.2	<0.15*	<0.15	<0.15	<0.15	<0.15	<0.15*	NA
Cobalt (Co)	130	<5	<5	<5	<5	<5	<5	NA
Copper (Cu)	7,700	<5	13	<5	<5	<5	6	NA
Lead (Pb)	160	<5	<5	<5	<5	<5	<5	NA
Manganese (Mn)	15,000	<100	<100	<100	<100	<100	<100	NA
Mercury (Hg)	94	<5	<5	<5	<5	<5	<5	NA
Nickel (Ni)	930	<5	<5	<5	<5	<5	<5	NA
Selenium (Se)	460	<5	<5	<5	<5	<5	<5	NA
Strontium (Sr)	56,000	<100	<100	<100	<100	<100	<100	NA
Tin (Sn)	180,000	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NA
Organic tin	12	-	-	-	-	-	-	NA
Zinc (Zn)	46,000	<100	<100	<100	<100	<100	<100	NA

Sample	2	3	5	6	7	8	9
Sample weight	≥100mg	≥100mg	≥100mg	≥100mg	≥100mg	≥100mg	<10mg

- 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



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### VIII. 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	Result (% w/w)					
1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
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

#### 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

### IX. 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, No. 835/2012 and No.2016/217 - Cadmium content

#### For paints on painted articles

Test item	Total Cadmium
Maximum permissible level (mg/kg)	1000
Sample	Result (mg/kg)
1	<5

#### For plastic material

Test item	Total Cadmium
Maximum permissible level (mg/kg)	100
Sample	Result (mg/kg)
2	<5
3	<5



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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)
	2	
(i) Benzo[a]anthracene	<0.1	0.5
(ii) Chrysene	<0.1	0.5
(iii) Benzo[b]fluoranthene	<0.1	0.5
(iv) Benzo[k]fluoranthene	<0.1	0.5
(v) Benzo[j]fluoranthene	<0.1	0.5
(vi) Benzo[e]pyrene	<0.1	0.5
(vii) Benzo[a]pyrene	<0.1	0.5
(viii) Dibenzo[a,h]anthracene	<0.1	0.5

- Note :
- mg/kg denotes milligram per kilogram
  - < denotes less than
  - Test part 9 with total mass per individual sample less than 50mg were not examined according to AfPS GS 2014 : 01 test instruction clause 2.1.2.

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
4.2	Reasonably foreseeable abuse	C
4.3	Material	
4.3.1	Material quality	C
4.10	Plastic film or plastic bags in packaging and in toys	C



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### 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

### 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)							
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
9	NA	NA	NA	NA	NA	NA	NA	NA

Sample	2	3	5	6	7	8	9
Sample weight	≥100mg	≥100mg	≥100mg	≥100mg	≥100mg	≥100mg	<10mg

- 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)



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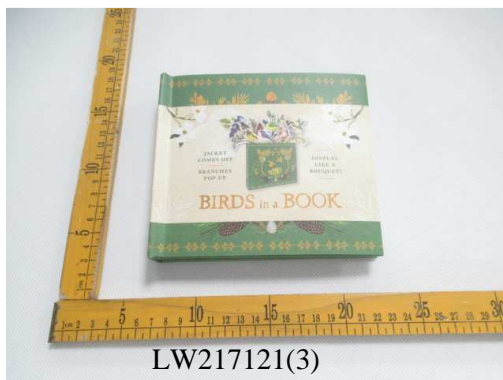
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### Appendix



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

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