



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No : AW2021542(5)

Date: 09 Nov 2018

Application No : LW218846(7)

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 : Party In A Book

ISBN : 9781419737343

P.O. No. : 131835-2

Manufacture Date : Nov 2018

No. of Samples submitted : 6 pieces

Client advise Age grading : Over 8 years old

Country of Origin : China

(B) One (1) paint samples (refer to page 16 for details) stated to be used for (A).

Date Received : 02 Nov 2018.

Test Period : 02 Nov 2018 to 08 Nov 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. U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 108 :  
Prohibition on Sale of Certain Products Containing Specified Phthalates;  
IV. 16 CFR Part 1307 - Prohibition of Children Toys and Child Care Articles  
Containing Specified Phthalates;  
V. 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;  
VI. 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



Ouyang Jingde / Samuel  
Assistant Manager  
Toys and Material Division

QP -30-02f A/0 2017-03-23

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Yubiao Testing and Certification Laboratory (Shenzhen) Limited

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Test Requested : VII. 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;  
VIII. 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;  
IX. EN71 : Part 1 : 2014 (E) - Physical and Mechanical Properties;  
X. EN71 : Part 2 : 2011 + A1 : 2014 (E) - Flammability test;  
XI. 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);  
XII. AS/NZS 8124 : Part 1 : 2016 - Safety Aspects Related to Mechanical and Physical Properties;  
XIII. AS/NZS 8124 : Part 2 : 2016 - Flammability;  
XIV. 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 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 Inductively Coupled Plasma Spectrometry (ICP-OES) analysis;  
III to V. With reference to CPSC-CH-C1001-09.4, followed by Gas Chromatography - Mass Spectrometer (GC-MS) analysis;  
VI. Phthalate analysis was determined by Gas Chromatography;  
VII. Acid digestion followed by Atomic Absorption Spectrophotometry and/or Inductively Coupled Plasma Spectrometry (ICP-OES) analysis;  
VIII. With reference to AfPS GS 2014 : 01 PAK;  
IX to XI 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);  
XII to XIV As stated in above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES).

For and on behalf of

Yubiao Testing and Certification Laboratory (Shenzhen) Limited

Authorized Signature : \_\_\_\_\_

Ouyang Jingde / Samuel  
Assistant Manager  
Toys and Material Division

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Test Result : Refer to the results on page 4 to 15.

Conclusion	Test Item	Result
I.	ASTM F963-17	
	- Physical and Mechanical Tests	Passed
	- Flammability Test	Passed
	- Heavy Elements Test (Clause 4.3.5)	Passed
II.	U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 101	Passed
III.	U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 108	Passed
IV.	16 CFR Part 1307 - Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates	Passed
V.	DEHP, BBP, DBP, DIDP and DnHP content stated in the consent judgment No. BG07350969 based on the California Proposition 65	Passed
VI.	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
VII.	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
VIII.	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
IX.	EN71 : Part 1 : 2014(E)	Passed
X.	EN71 : Part 2 : 2011 + A1 : 2014(E)	Passed
XI.	EN71 : Part 3 : 2013+ A2 : 2017(E)	Passed
XII.	AS/NZS 8124 : Part 1 : 2016	Passed
XIII.	AS/NZS 8124 : Part 2 : 2016	Passed
XIV.	AS/NZS 8124 : Part 3 : 2012 + Amdt 1 : 2016	Passed

For and on behalf of

Yubiao Testing and Certification Laboratory (Shenzhen) Limited

Authorized Signature : \_\_\_\_\_

Ouyang Jingde / Samuel  
Assistant Manager  
Toys and Material Division

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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.



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### I. ASTM F963-17

#### 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.

\* Abbreviation : C = Complied

#### c. Heavy Elements Test

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

<u>Test Item</u>	<u>Total Lead</u>
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
-------------	---	---

<u>Test Item</u>	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



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Test Result :

### I. ASTM F963-17

#### c. Heavy Elements Test

Clause	Title/Description	Remark*
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

- 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	1	2	3
Sample weight	<10mg	≥100mg	≥100mg



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Test Result :

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

#### For materials and substrate

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

Note : • < denotes less than





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Test Result :

### III. U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 108

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	0.02	<0.01	<0.01	<0.01

#### Requirement for U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 108

It shall be unlawful for any person to manufacture for sale, offer for sale, distribute in commerce, or import into the United States:

1. Any children's toy or child care article that contains concentrations of more than 0.1% of DEHP, DBP or BBP.
2. Any children's toy that can be placed in a child's mouth or child care article that contains concentrations of more than 0.1% of DINP, DIDP or DNOP.

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; DIDP = Diisodecyl Phthalate; DNOP = Di-n-octyl Phthalate

### IV. 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	0.02	<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





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Test Result :

### V. 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	0.02	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

### VI. 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)					
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	0.02	<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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### **VII. 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 plastic material

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

#### For paints on painted articles

<u>Test item</u>	<u>Total Cadmium</u>
Maximum permissible level (mg/kg)	1000
Sample	Result (mg/kg)
3	<5
9	<5

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



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Test Result :

### VIII. 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 applicable
  - If less than 50mg material is available for individual sample, these are not examined according to AfPS GS 2014 : 01 test instruction clause 2.1.2.





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Test Result :

Tested age group : For ages over 8 years old

### IX. 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

### X. 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 :

### XI. 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	136	<100	<100	<100	1219
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	10	<5	<5	<5	<5	7
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 <sup>#</sup>	12	NA	-	-	-	-	-	-
Zinc (Zn)	46,000	NA	<100	<100	<100	<100	<100	<100

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

- 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
  - <sup>#</sup>Organic tin compounds under investigation are limited to methyltin, butyltin, dibutyltin, tributyltin, tetrabutyltin, mono-octyltin, dioctyltin, dipropyltin, diphenyltin and triphenyltin. Other organic tin compounds may also be present in toys



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Application No : LW218846(7)

Test Result :

Tested age group : For ages over 8 years old

### **XII. AS/NZS 8124 : Part 1 : 2016**

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
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

### **XIII. AS/NZS 8124 : Part 2 : 2016**

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

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

\* Abbreviation : C = Complied





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廠商會檢定中心

## TEST REPORT

Report No : AW2021542(5)

Date: 09 Nov 2018

Application No : LW218846(7)

Test Result :

### XIV. 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

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

- 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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## Appendix



- Test Parts :
1. Cyan coating (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 with multi-color printings (pages)
  6. White paper with multi-color printings (pattern cards)
  7. White paper (sleeve)
  8. Grey paper (cover)
  9. Cyan paint (used for eyelet of pages)

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