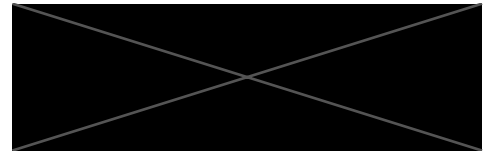


**Products**



**Report No.:** 158250309a 001

Page 1 of 15

**Client:** [Redacted]

[Redacted]

**Buyer's name:** [Redacted]

**Manufacturer's name:** NOOX CITY

**Test item(s):** Toy components

**Identification/  
Model No(s):** Soft book Noox City

**Sample obtaining method:** Sending by customer

**Condition at delivery:** Test item complete and undamaged.

**Sample Receiving date:** 2022-04-13

**Testing Period:** 2022-04-21 to 2022-04-26

**Place of testing:** Chemical laboratory Hong Kong, Toys laboratory Hong Kong

**Test Specification:**

Please refer to "Test Result Summary List" on page 2 for details

**Other information:**

Country of Origin: China

Country of Destination: Germany

The provided age grade of the item(s) : 0+

The appropriate age grade of the item(s) : For all ages.

The item was tested for all ages.

Packaging provided: Yes

**For and on behalf of**

[Redacted]

Amenda Yung/  
Project Manager

2022-04-28

Date

Name/Position



Wong Yiu Tong , Tommy/  
Senior Lab Manager

2022-04-28

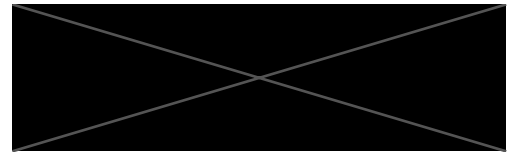
Date

Name/Position

*Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed. This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

*Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report*

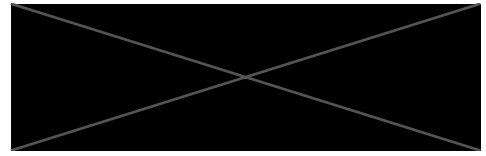
[Redacted]



**Test Result Summary :**

<i>Test Specification:</i>	<i>Test result:</i>
1 EN 71-1:2014+A1:2018 Mechanical and physical properties (As per client request, Clause 7 - Warnings and instructions and 2009/48/EC Labeling requirement were excluded in this test report)	PASS
2 EN 71-2:2020 Flammability	PASS
3 EN 71-3:2019+A1:2021 Migration of 19 Elements	PASS
4 EN 71-9 : 2005 / A1 : 2007; EN 71-10 and 11 : 2005 Cl. 4.3.1 Formaldehyde (EN ISO 14184-1)  Formaldehyde content by ISO 14184-1 - Commission Directives (EU) 2019/1929, amendment of Directive 2009/48/EC	PASS
5 Banned azo dyes in accordance to REACH regulation (EC) No. 1907/2006 and amendment no. 552/2009 Annex XVII Item 43 (formerly known as 2002/61/EC)  Banned azo dyes according to REACH regulation (EC) No. 1907/2006 and its amendments Annex XVII Entry 72	PASS
Customer requirement: Aniline content	Refer to result page
6 TCEP, TCPP and TDCP content - According to the requirement of Appendix C of Annex II to Directive 2009/48/EC with amendment Commission Directive 2014/79/EU	PASS
7 Extractable heavy metals according to REACH regulation (EC) No. 1907/2006 and its amendments Annex XVII Entry 72	PASS
8 REACH regulation (EC) No. 1907/2006 and its amendment regulations on Annex XVII entry 51 and entry 52 : Phthalates	PASS



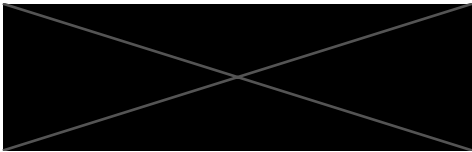


**Material List:**

Item: Soft book Noox City

Material No.	Material	Color	Location
M001	Whole Product	Multicolor	Whole product
M003	Textile + printing	Dull white + multicolor	Book
M006	Plastic	Transparent	Inner film
M008	Synthetic fibre	White	Stuffing

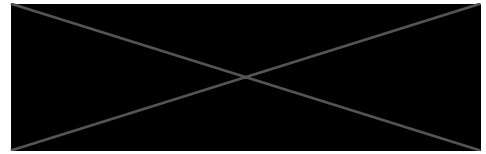




**1. EN 71-1:2014+A1:2018 Mechanical and physical properties**

Test No:	T001
Material No:	M001
<b>4. General requirements</b>	
4.1 Material cleanliness	PASS
4.7 Edges	PASS
4.8 Points and metallic wires	PASS
4.20 Acoustics	PASS
<b>5. Toys intended for children under 36 months</b>	
5.1 General requirements	PASS
5.2 Soft-filled toys and soft-filled parts of a toy	PASS
5.4 Cords, chains and electrical cables in toys	PASS
<b>7. Warnings, markings and instructions for use</b>	
7.1 General	Not Conducted
7.2 Toys not intended for children under 36 months	Not Conducted
7.3 Latex balloons	Not Conducted
7.4 Aquatic toys	Not Conducted
7.5 Functional toys	Not Conducted
7.6 Hazardous sharp functional edges and points	Not Conducted
7.7 Projectile toys	Not Conducted
7.8 Imitation protective masks and helmets	Not Conducted
7.9 Toy kites	Not Conducted
7.10 Roller skates, inline skates, skateboards and certain other ride-on toys	Not Conducted
7.11 Toys otherwise intended to be strung across a cradle, cot, or perambulator	Not Conducted
7.12 Liquid-filled teethers	Not Conducted
7.13 Percussion caps specifically designed for use in toys	Not Conducted
7.14 Acoustics	Not Conducted
7.15 Toy bicycles	Not Conducted
7.16 Toys intended to bear the mass of a child	Not Conducted
7.17 Toys comprising monofilament fibres	Not Conducted
7.18 Toy scooters	Not Conducted
7.19 Rocking horses and similar toys	Not Conducted
7.20 Magnetic/ electrical experimental sets	Not Conducted
7.21 Toys with electrical cables exceeding 300 mm in length	Not Conducted
7.22 Toys with cords or chains intended for children of 18 months and over but under 36 months	Not Conducted
7.23 Toys intended to be attached to a cradle, cot or perambulator	Not Conducted

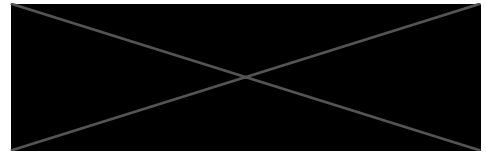




7.24 Sledges with cords for pulling	Not Conducted
7.25 Flying toys	Not Conducted
7.26 Improvised projectiles	Not Conducted

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.





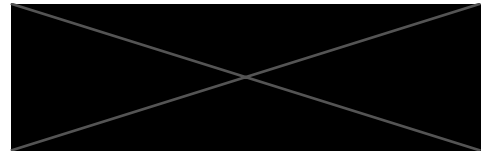
**2. EN 71-2:2020 Flammability**

**Test result:**

	Test No:	T001
	Material No:	M001
4.1 General requirements		PASS
4.5 Soft-filled toys		PASS

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.





**3. EN 71-3:2019+A1:2021 Migration of 19 Elements**

Test Method: with reference to EN 71-3:2019+A1:2021, analyzed by ICP-OES / ICP-MS / LC-ICP-MS/IC-UV/GC-MS.

**3) For scraped-off toy materials:**

**Test Result:**

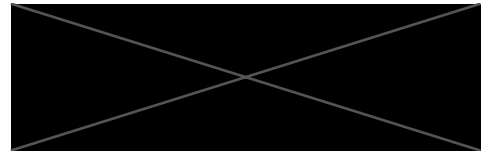
				Test No.	T001
				Material No.	M003
Test Parameter	Unit	RL	Regulatory Requirement	Result	
Aluminium (Al)	mg/kg	10	28,130	< RL	
Antimony (Sb)	mg/kg	5	560	< RL	
Arsenic (As)	mg/kg	5	47	< RL	
Barium (Ba)	mg/kg	2.5	18,750	5.6	
Boron (B)	mg/kg	10	15,000	< RL	
Cadmium (Cd)	mg/kg	1	17	< RL	
Chromium III (Cr(III))	mg/kg	10	460	4.50	
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	
Cobalt (Co)	mg/kg	2.5	130	< RL	
Copper (Cu)	mg/kg	2.5	7,700	3.9	
Lead (Pb)	mg/kg	2.5	23	< RL	
Manganese (Mn)	mg/kg	2.5	15,000	11.2	
Mercury (Hg)	mg/kg	2.5	94	< RL	
Nickel (Ni)	mg/kg	2.5	930	< RL	
Selenium (Se)	mg/kg	10	460	< RL	
Strontium (Sr)	mg/kg	2.5	56,000	14.0	
Tin (Sn)	mg/kg	1.0	180,000	< RL	
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	
Zinc (Zn)	mg/kg	10	46,000	< RL	

**Abbreviation:** < less than  
 RL = Reporting Limit  
 mg/kg denotes milligram per kilogram  
 mg denotes milligram  
 ^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

**Remark:**

\* Categorization of toys materials is based on the material texture. According to point H.11 of Annex H to EN 71-3:2019+A1:2021, cosmetic materials with dry, brittle, powder like or pliable texture such as lipstick and eyeshadow are considered as category I materials. However, as a reminder, it cannot preclude the possibility that some national enforcement authorities might take a more stringent action to treat cosmetic materials as sticky and evaluate according to category II requirement as they are intended to be applied on skin and retained for long time.





**4. Formaldehyde (EN ISO 14184-1)**

Test Method: EN ISO 14184-1:2011

**Test Result:**

Test No.	Material No.	Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Weight of sample (g)	Test Result
T001	M003	Formaldehyde content	50-00-0	mg/kg	10	30	1.0014	< RL

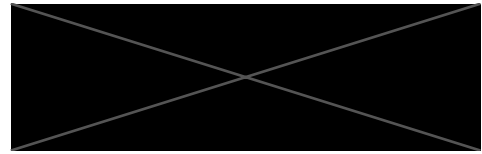
**Abbreviation:** < = less than  
RL = Reporting Limit  
mg/kg = milligram per kilogram  
g = gram

**Remark:**

- \* The sample was packed in polyethylene bag and wrapped by aluminum foil prior to test.
- \*\* The range of the calibration graph: 0.1 µg CH<sub>2</sub>O/ml to 6 µg CH<sub>2</sub>O/ml.
- \*\*\* One test is performed for each material.
- \*\*\*\* The requirement is following Appendix C of Annex II to Directive 2009/48/EC with Commission Directive amendment (EU) 2019/1929, formaldehyde content shall not exceed 30 mg/kg in textile toy material of toys intended for use by children under 36 months or in other toys intended to be placed in the mouth adopted in accordance with Article 46(2). Effective from 21 May 2021.







**5. Banned azo dyes**

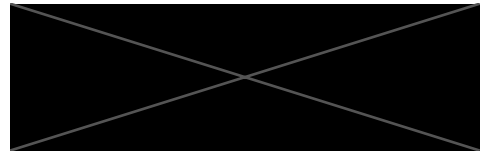
Test Method: Method 1 - EN ISO 14362-1:2017 (Textiles) (Buffer extraction)  
 Method 2 - EN ISO 14362-1:2017 (Textiles) (Xylene extraction)  
 Method 3 - ISO 17234-1:2015 (Leather)  
 Method 4 - EN ISO 14362-3:2017 (Textile, 4-aminoazobenzene confirmation)  
 Method 5 - ISO 17234-2:2011 (Leather, 4-aminoazobenzene confirmation)

**Test Results:**

		Material No.				M003	
		Test No.				T001-1	T001-2
		Method No.				Method 1	Method 2
		A22 Confirmation Method No.				4	4
ID	Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	Result
A1	4-Aminobiphenyl	92-67-1	mg/kg	5	30	< RL	< RL
A2	Benzidine	92-87-5	mg/kg	5	30	< RL	< RL
A3	4-Chloro-o-toluidine	95-69-2	mg/kg	5	30	< RL	< RL
A4	2-Naphthylamine	91-59-8	mg/kg	5	30	< RL	< RL
A5*	o-Aminoazotoluene	97-56-3	mg/kg	5	30	< RL	< RL
A6*	5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	30	< RL	< RL
A7	4-Chloroaniline	106-47-8	mg/kg	5	30	< RL	< RL
A8	4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	30	< RL	< RL
A9	4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	5	30	< RL	< RL
A10	3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	30	< RL	< RL
A11	3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	30	< RL	< RL
A12	3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	30	< RL	< RL
A13	4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	30	< RL	< RL
A14	p-Cresidine	120-71-8	mg/kg	5	30	< RL	< RL
A15	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	30	< RL	< RL
A16	4,4'-Oxydianiline	101-80-4	mg/kg	5	30	< RL	< RL
A17	4,4'-Thiodianiline	139-65-1	mg/kg	5	30	< RL	< RL
A18	o-Toluidine	95-53-4	mg/kg	5	30	< RL	< RL
A19	4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	mg/kg	5	30	< RL	< RL
A20	2,4,5-Trimethylaniline	137-17-7	mg/kg	5	30	< RL	< RL
A21	O-Anisidine	90-04-0	mg/kg	5	30	< RL	< RL
A22**	4-Aminoazobenzene	60-09-3	mg/kg	5	30	< RL	< RL
A25^	Aniline	62-53-3	mg/kg	5	--	< RL	< RL
A26^	1,4-phenylenediamine	106-50-3	mg/kg	5	--	< RL	< RL
B3	(B3)4-chloro-o-toluidinium chloride	3165-93-3	mg/kg	5	30	< RL	< RL
B4	(B4)2-Naphthylammoniumacetate	553-00-4	mg/kg	5	30	< RL	< RL
B8	(B8)2,4-diaminoanisole sulphate	39156-41-7	mg/kg	5	30	< RL	< RL
B20	(B20)2,4,5-trimethylaniline hydrochloride	21436-97-5	mg/kg	5	30	< RL	< RL

**Abbreviation:** < = less than  
 RL = Reporting Limit  
 mg/kg = milligram per kilogram

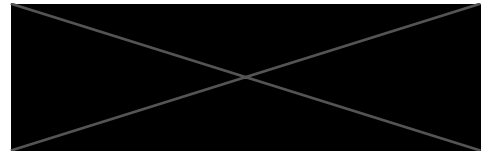




**Remark:**

- \* The CAS-number 97-56-3 (A5) and 99-55-8 (A6) are further reduced to CAS-number 95-53-4 (A18) and 95-80-7 (A19).
- \*\* Azo colorants that are able to form 4-aminoazobenzene (A22) CAS-number 60-09-3, generate under the condition of this method Aniline (CAS-number 62-53-3) and 1,4-phenylenediamine (CAS-number 106-50-3.)
- \*\*\* Azo colorants that are able to form 4-aminoazobenzene (A22), is confirmed by EN ISO 14362-3:2017 / ISO 17234-2:2011.
- \*\*\*\* Azo colorants are detected & quantified by GC/MS and confirmed by HPLC/DAD or HPLC/MSMS.
- \*1 According to REACH regulation (EC) No. 1907/2006 and its amendment no. 552/2009 and (EU) 2020/2096 Annex XVII Entry 43, azodyes which, by reductive cleavage of one or more azo groups, may release one or more of A1 - A22, in concentrations above 30 mg/kg (0,003 % by weight) in the articles or in the dyed parts thereof shall not be used, in textile and leather articles which may come into direct and prolonged contact with the human skin or oral cavity.  
  
According to REACH regulation (EC) No. 1907/2006 and its amendments Annex XVII Entry 72, the maximum permissible limit is 30 mg/kg for each of B3, B4, B8 and B20.  
  
B3 is tested and calculated in terms of 4-chloro-o-toluidine (A3).  
B4 is tested and calculated in terms of 2-Naphthylamine (A4).  
B8 is tested and calculated in terms of 4-Methoxy-m-phenylenediamine (A8).  
B20 is tested and calculated in terms of 2,4,5-Trimethylaniline (A20).
- \*2 Detection of Arylamine salts as the amine and tested with the Azo method. Regardless of the origin of the aromatic amine, if the value exceeds 30 mg/kg, it will be a fail result.





**6.TCEP, TCPP and TDCP content**

Test Method: Solvent extraction, GC-MS analysis

**Test results**

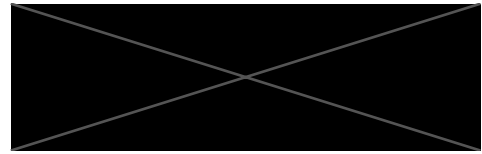
				Test No.	T001
				Material No.	M008
Test Parameter	CAS NO	Unit	RL	Result	
Tris-(2-chloroethyl) phosphate (TCEP)	115-96-8	mg/kg	1	< RL	
Tris-(2-chloroisopropyl)phosphate (TCPP)	13674-84-5	mg/kg	1	< RL	
Tris-(2-chloro-(chloromethyl)ethyl)phosphate (TDCP)	13674-87-8	mg/kg	1	< RL	

**Abbreviation:** < = less than  
 RL = Reporting Limit  
 mg/kg = milligram per kilogram  
 n.a. = not applicable  
 1% = 10000 mg/kg

**Remark:**

\*1 The requirement is following Appendix C of Annex II to Directive 2009/48/EC with amendment Commission Directive 2014/79/EU, concentration of TCEP, TCPP and TDCP shall not exceed 5mg/kg in toys intended for use by children under 36 months or in other toys intended to be placed in the mouth adopted in accordance with Article 46(2).





**7. Extractable heavy metals**

Test Method: Ref to EN 16711-2:2015.

**Test Result:**

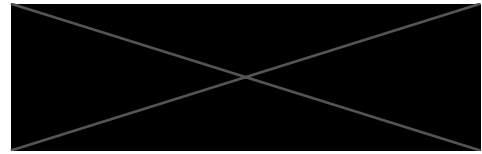
				Test No.	T001
				Material No.	M003
Test Parameter	Unit	RL	Regulatory Requirement	Result	
Cadmium(Cd)	mg/kg	0.02	1	< RL	
Chromium VI (Cr(VI))*	mg/kg	0.5	1	< RL	
Arsenic(As)	mg/kg	0.02	1	< RL	
Lead(Pb)	mg/kg	0.02	1	< RL	

**Abbreviation:** < = Less than  
RL = Reporting Limit  
mg/kg = milligram per kilogram

**Remark:**

\* Cr VI need to be tested by EN ISO 17075-1:2017 or EN ISO 17075-2:2017, if the result of Cr exceeded 1 mg/kg.





**8. Phthalates content**

Test Method: Ref. to CPSC-CH-C1001-09.4

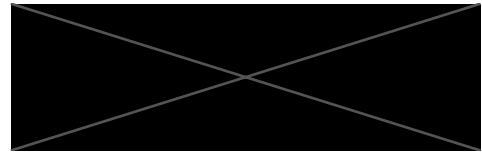
**Test Result:**

Test Parameter	CAS NO	Test No.		T001
		Unit	RL	M006
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.005	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	< RL
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.005	<RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	< RL
Sum (DINP+ DIDP+ DNOP)	--	%	0.005	<RL
Conclusion: REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51 and 52				Pass

**Abbreviation:** < = less than  
 RL = Reporting Limit  
 % = percentage

**Remark:**





- Requirement of REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51 and 52:

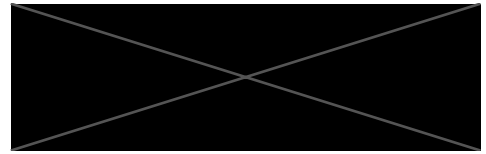
Parameter	Unit	Maximum Permissible Limit
Plasticised materials in toys and childcare articles, or other articles# place on the market;		
Diethylhexyl phthalate (DEHP) Dibutyl phthalate (DBP) Benzylbutyl phthalate (BBP) Diisobutyl phthalate (DIBP)	%	0.1 (individually or sum of the four phthalates) Effective after 7 July 2020.
Plasticised materials in children's toy and childcare articles which can be placed in the mouth by children:		
Di-n-octyl phthalate (DNOP) Diisodecyl phthalate (DIDP) Diisononyl phthalate (DINP)	%	0.1 (sum of the three phthalates)

Denote:

# Examples of articles that are excluded from the restriction

- 1) Articles exclusively for industrial / agricultural use / use in open air, provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin (i.e. Continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.)
  - 2) Aircraft and motor vehicles (Directive 2007/46/EC) placed on the market before 7 January 2024, or articles for use exclusively in the maintenance or repair of them
  - 3) Measuring devices for laboratory use;
  - 4) Food contact material and articles within the scope of Regulation (EC) No 1935/2004 or Commission Regulation (EU) No 10/2011
  - 5) Medical devices (Directive 90/385/EEC, 93/42/EEC or 98/79/EC)
  - 6) Electrical and electronic equipment within the scope of Directive 2011/65/EU
  - 7) Immediate packaging of medicinal products (Regulation (EC) No 726/2004, Directive 2001/82/EC or Directive 2001/83/EC)
- Single component with an amount below reporting limit was not considered by the calculation of the sum. In the case of all phthalates were not detected, the result is stated <RL.





Sample Photos



- END -



