

Test Report No.: 60.452.23.1768.01R

Dated: 2023-07-27



**Applicant** : Lup Shun Metal & Plastic Ware Fty., Ltd.  
Room 1115, 11/F Peninsula Centre, 67 Mody Road, Tsim Sha Tsui, Kowloon, Hong Kong.

**Sample Description** : Space 3D Viewer  
Dinosaur 3D Viewer

**Style No.** : AF3002N  
AF3002D

**Product Type / End use** : Toys

**Sample Quantity** : 8pcs each

**Test Sample Receipt Date, Location** : 2023-05-03, 2023-05-25, 2023-06-08, 2023-06-09,  
2023-06-13, 2023-06-20, 2023-06-28, 2023-06-30 and  
2023-07-10, Hong Kong

**Test Period, Location** : From 2023-05-17 to 2023-06-19, Hong Kong

**Test Result(s)** : Refer to Section 3

**Purpose Of Examination / Conclusion:**

No.	Test Item(s)	Conclusion
	<b>Test in accordance with ASTM F963-17 Standard Consumer Safety Specification for Toy Safety</b>	
1.	<b>Mechanical and Physical Properties</b>	Pass
2.	<b>Flammability</b>	Pass
3.	<b>Clause 4.3.5 Heavy Elements Content - Soluble Migrated Elements</b>	Pass
4.	<b>Clause 4.3.5 Heavy Elements Content – Total Lead Content</b>	Pass
5.	<b>Total Lead</b> Consumer Product Safety Improvement Act of 2008 (Section 101)	Pass
6.	<b>Phthalates Test</b> U.S. CFR Title 16 Part 1307	Pass
7.	<b>Total Lead</b> California Proposition 65, with reference to consent judgment no. RG-07-356892 settled by superior court of the state of California for the county of Alameda	Pass
8.	<b>Total Lead</b> California Proposition 65, with reference to Settlement Agreement Ref.2014-00345	Pass

**Laboratory:**  
TÜV SÜD Hong Kong Limited

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Yuen Long, New Territories, Hong Kong



No.	Test Item(s)	Conclusion
9.	<b>Total Lead</b> California Proposition 65, with reference to consent judgment no. BG07350969 settled by superior court of the state of California for the county of Alameda	Pass
10.	<b>Phthalates Test</b> California Proposition 65, with reference to consent judgment no. BG07350969 settled by superior court of the state of California for the county of Alameda	Pass
11.	<b>Ghost wipe test (NIOSH 9100) – Lead Content</b> California Proposition 65, with reference to consent judgment no. CGC-11-509211 settled by superior court of the state of California for the county of San Francisco	Pass
12.	<b>Total Lead - Illinois Lead Poisoning Prevention Act (410 ILCS 45/6b)</b>	Pass
13.	<b>EN 71-1:2014+A1:2018 - Mechanical and Physical Properties</b>	Pass
14.	<b>EN 71-2:2020 - Flammability</b>	Pass
15.	<b>EN 71-3:2019+A1:2021 - Migration of certain elements</b>	Pass
16.	<b>Total Lead</b> Regulation (EC) No.1907/2006 (REACH) Annex XVII, Entry 63 and its amendment Regulation (EU) 2015/628	Pass
17.	<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b> Regulation (EC) No.1907/2006 and its amendment (EU) No. 1272/2013 Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 50	Pass
18.	<b>Phthalates</b> Regulation (EC) No.1907/2006 and its amendment Regulation (EU) No. 2018/2005 (REACH) Annex XVII, Entry 51 and 52	Pass
19.	<b>Total Cadmium</b> Regulation (EU) 2016/217, amending Annex XVII to Regulation (EC) No. 1907/2006 Entry 23.	Pass

Remarks:

(1) The results relate only to the items tested.

(2) Samples are tested as received.

(3) When a statement of conformity to a specification / standard is provide on test report, decision rule is applied. For detail, please refer to TUV SUD Hong Kong Limited's decision rule statement which is available on TUV SUD Hong Kong Limited's website:

<https://www.tuvsud.cn/zh-cn/-/media/regions/zh/cn/images/about-us/decision-rule-tuv-sud-hong-kong-limited.pdf>

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**Dated: 2023-07-27**



TÜV SÜD Hong Kong  
TÜV SÜD Group

Prepared by:

Reviewed by:

Handwritten signature of Ruby Wong in black ink.

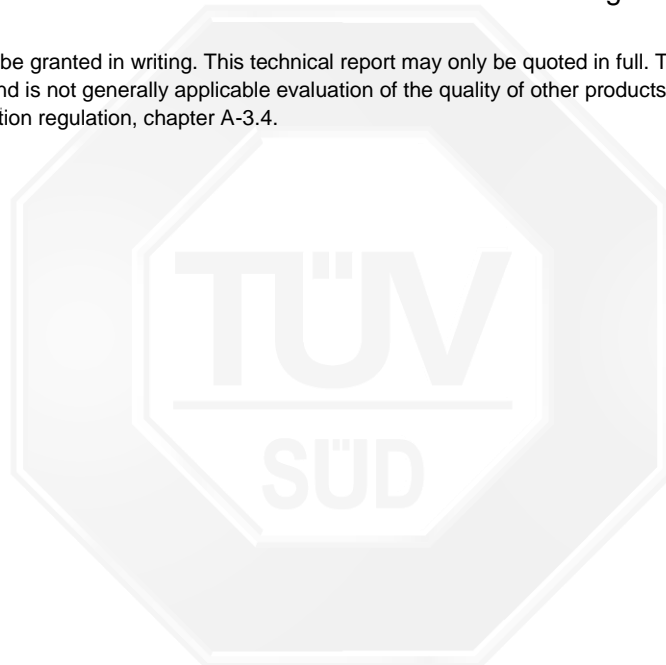


Handwritten signature of Hilda Tang in black ink.

Ruby Wong  
Project Manager

Hilda Tang  
Manager

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1. Description of the Test Sample:



2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description
T1	068	White plastic (body of viewer,AF3002N)
T2	073	Transparent plastic (lens,AF3002D/lens,AF3002N)
T3	074	Black plastic (body of viewer,AF3002D/body of viewer,AF3002N)
T4	075	Silvery metal (screw,AF3002D/screw,AF3002N)
T5	093	Transparent plastic (film,AF3002D/film,AF3002N)
T6	094	Multicolor coating (film,AF3002D/film,AF3002N)
T7	095	Transparent plastic with multicolor printing (film,AF3002D/film,AF3002N)
T8	098	Pale grey coating (on body of viewer,AF3002N)
T9	111	White paper with multicolor printing (poster,AF3002D/poster,AF3002N)
T10	146	White coating (on body of viewer,AF3002D)
T11	151	Dull blue plastic with light grey printing (body of viewer,AF3002N)
T12	165	White plastic with light grey/ pale grey coating ( body of viewer,AF3002N)
T13	175	Translucent plastic (body of viewer,AF3002D/body of viewer,AF3002N)
T14	176	Light red plastic (body of viewer,AF3002D)
T15	177	Orange plastic (body of viewer,AF3002D)
T16	178	White/ creamy paper with sticker (disc,AF3002D/disc,AF3002N)
T17	329	Whole product - (Whole product ,AF3002N)
T18	330	Whole product - (Whole product ,AF3002D)



**3. Test Results**

<b>Sample:</b>	<b>329,330</b>
Packaging provided:	Actual packaging
Labeled age grading:	3+
Appropriate age grading:	For ages 3 years and up
Client requested age grading:	Not declared
Applied testing age grading:	For ages 3 years and up

**3.1 Mechanical and Physical Properties**

Test in accordance with ASTM F963-17

<b>Sample 329,330</b>		
<b>Clause</b>	<b>Title/ Description</b>	<b>Remark<sup>^</sup></b>
4	SAFETY REQUIREMENTS	--
4.1	Material quality	C
4.7	Accessible edges	C
4.9	Accessible points	C
4.11	Nails and fasteners	C
4.18	Holes, clearance, and accessibility of mechanisms	C
5	LABELLING REQUIREMENTS	--
5.16	Promotional materials	C
7	PRODUCER'S MARKING	--
7.1	Name of the Producer or the Distributor	C

<sup>^</sup> Abbreviation:

C = Complied

**3.2 Flammability 4.2-Annex 5**

Test in accordance with ASTM F963-17

<b>Sample 329,330</b>		
<b>Clause</b>	<b>Title/ Description</b>	<b>Remark<sup>^</sup></b>
4.2-A5	Flammability of Solids and Soft Toys In accordance with Annex A5 Flammability on Solids and Soft Toys	C

**Remark:**

Note: Maximum permissible burning rate = 0.1 in/sec.

<sup>^</sup> Abbreviation:

C = Complied



**3.3 ASTM F 963-17 Clause 4.3.5 Heavy Elements Content - Soluble Migrated Elements**

Test according to ASTM F 963-17 Section 8.3.2 Heavy metal analysis was determined by Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES).

[Reporting Limit = 5.0mg/kg]

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 068	Sample 073	Sample 074	
Soluble Antimony	<5.0	<5.0	<5.0	60
Soluble Arsenic	<5.0	<5.0	<5.0	25
Soluble Lead	<5.0	<5.0	<5.0	90
Soluble Cadmium	<5.0	<5.0	<5.0	75
Soluble Selenium	<5.0	<5.0	<5.0	500
Soluble Mercury	<5.0	<5.0	<5.0	60
Soluble Chromium	<5.0	<5.0	<5.0	60
Soluble Barium	<5.0	<5.0	<5.0	1000
<b>Conclusion</b>	Pass	Pass	Pass	-

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 093	Sample 094	Sample 098*	
Soluble Antimony	<5.0	<5.0	NA	60
Soluble Arsenic	<5.0	<5.0	NA	25
Soluble Lead	<5.0	<5.0	NA	90
Soluble Cadmium	<5.0	<5.0	NA	75
Soluble Selenium	<5.0	<5.0	NA	500
Soluble Mercury	<5.0	<5.0	NA	60
Soluble Chromium	<5.0	<5.0	NA	60
Soluble Barium	<5.0	<5.0	NA	1000
<b>Conclusion</b>	Pass	Pass	Pass	-

Remarks: The toy material samples with sample weight less than 100 mg, were assumed to be 100 mg in calculation

Actual weight of sample(s) used for analysis which are less than 100 mg.

Sample 094 : 27.8mg

- Note
1. "<" denotes less than
  2. "mg/kg" denotes milligram per kilogram
  3. \* denotes test specimen less than 10 milligram is not required to test the soluble migrated elements according to ASTM F 963-17 section 8.3.3.6.
  4. "NA" denotes Not Applicable



**3.3 ASTM F 963-17 Clause 4.3.5 Heavy Elements Content - Soluble Migrated Elements**

Test according to ASTM F 963-17 Section 8.3.2 Heavy metal analysis was determined by Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES).

[Reporting Limit = 5.0mg/kg]

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 111	Sample 146*	Sample 151	
Soluble Antimony	<5.0	NA	<5.0	60
Soluble Arsenic	<5.0	NA	<5.0	25
Soluble Lead	<5.0	NA	<5.0	90
Soluble Cadmium	<5.0	NA	<5.0	75
Soluble Selenium	<5.0	NA	<5.0	500
Soluble Mercury	<5.0	NA	<5.0	60
Soluble Chromium	<5.0	NA	<5.0	60
Soluble Barium	<5.0	NA	<5.0	1000
<b>Conclusion</b>	Pass	Pass	Pass	-

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 175	Sample 176	Sample 177	
Soluble Antimony	<5.0	<5.0	<5.0	60
Soluble Arsenic	<5.0	<5.0	<5.0	25
Soluble Lead	<5.0	<5.0	<5.0	90
Soluble Cadmium	<5.0	<5.0	<5.0	75
Soluble Selenium	<5.0	<5.0	<5.0	500
Soluble Mercury	<5.0	<5.0	<5.0	60
Soluble Chromium	<5.0	<5.0	<5.0	60
Soluble Barium	<5.0	<5.0	<5.0	1000
<b>Conclusion</b>	Pass	Pass	Pass	-

- Note
1. "<" denotes less than
  2. "mg/kg" denotes milligram per kilogram
  3. \* denotes test specimen less than 10 milligram is not required to test the soluble migrated elements according to ASTM F 963-17 section 8.3.3.6.
  4. "NA" denotes Not Applicable



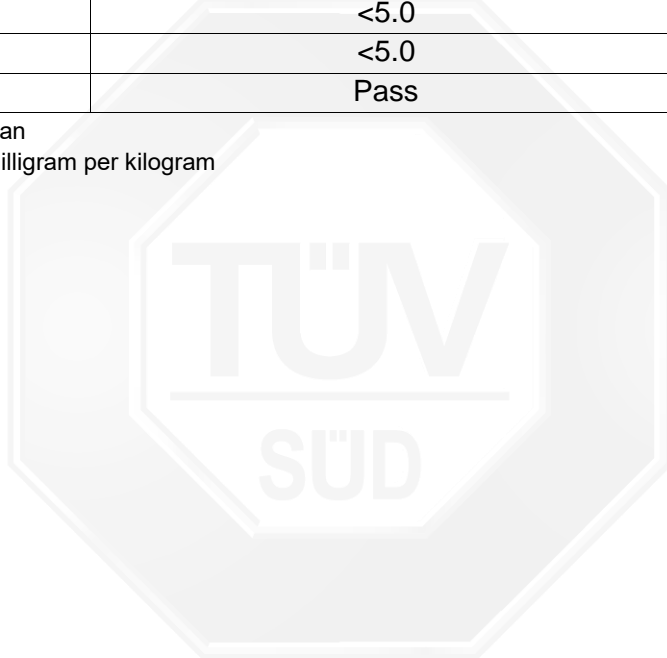
**3.3 ASTM F 963-17 Clause 4.3.5 Heavy Elements Content - Soluble Migrated Elements**

Test according to ASTM F 963-17 Section 8.3.2 Heavy metal analysis was determined by Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES).

[Reporting Limit = 5.0mg/kg]

Migration Elements	Results [mg/kg]	Maximum Permissible Limits [mg/kg]
	Sample 178	
Soluble Antimony	<5.0	60
Soluble Arsenic	<5.0	25
Soluble Lead	<5.0	90
Soluble Cadmium	<5.0	75
Soluble Selenium	<5.0	500
Soluble Mercury	<5.0	60
Soluble Chromium	<5.0	60
Soluble Barium	<5.0	1000
<b>Conclusion</b>	Pass	-

- Note 1. "<" denotes less than  
 2. "mg/kg" denotes milligram per kilogram







**3.4 ASTM F 963-17 Clause 4.3.5 Heavy Elements Content – Total Lead Content**

Test according to ASTM F 963-17 Section 8.3.1

Heavy metal analysis was determined by Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)

[Reporting Limit = 15.0mg/kg for individual test, 25.0mg/kg for composited test]

**3.4.1 Toy Substrate Materials**

Analyte	Result [mg/kg]		
	Sample (068+093+122a)**	Sample (073+074+081a)**	Sample (075+142a+143a)**
Lead	<25.0	<25.0	<25.0
Limit	<100 mg/kg		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 111	Sample 151	Sample (176+158a+174a)**
Lead	<15.0	<15.0	<25.0
Limit	<100 mg/kg		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]
	Sample (177+182a+186a)**
Lead	<25.0
Limit	<100 mg/kg
Conclusion	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. "\*\*\*" denotes 081a, 122a, 142a, 143a, 158a, 174a 182a, 186a do not exist in this product

**3.4.2 Paint and Similar Surface-Coating Materials**

Analyte	Result [mg/kg]		
	Sample 094	Sample 098	Sample 146
Lead	<15.0	<15.0	<15.0
Limit	<90 mg/kg		
Conclusion	Pass	Pass	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than



**3.5 Total Lead**

Consumer Product Safety Improvement Act of 2008 (Section 101)  
 Test in accordance with CPSC-CH-E1003-09.1 (Paint and surface coating),  
 CPSC-CH-E1002-08.3 (Non-Metallic components),  
 CPSC-CH-E1001-08.3 (Metallic components Including Children's Metal Jewelry)  
 [Reporting Limit = 15.0mg/kg for individual test, 25.0mg/kg for composited test]

**3.5.1 For surface coating**

Analyte	Result [mg/kg]		
	Sample 094	Sample 098	Sample 146
Lead	<15.0	<15.0	<15.0
Limit	<90		
Conclusion	Pass	Pass	Pass

Note 1. "mg/kg" denotes milligram per kilogram  
 2. "<" denotes less than

**3.5.2 For Substrate**

Analyte	Result [mg/kg]		
	Sample (068+093+122a)**	Sample (073+074+081a)**	Sample (075+142a+143a)**
Lead	<25.0	<25.0	<25.0
Limit	<100		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 111	Sample 151	Sample (176+158a+174a)**
Lead	<15.0	<15.0	<25.0
Limit	<100		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]
	Sample (177+182a+186a)**
Lead	<25.0
Limit	<100
Conclusion	Pass

Note 1. "mg/kg" denotes milligram per kilogram  
 2. "<" denotes less than  
 3. "\*\*\*" denotes 081a, 122a, 142a, 143a, 158a, 174a 182a, 186a do not exist in this product



**3.6 Phthalates Test**

U.S. CFR Title 16 Part 1307

With reference to CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample (068+ 093+ 122a)**	Sample (073+ 074+ 081a)**	Sample 094	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	<0.005	<0.1
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	<0.005	<0.1
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	<0.005	<0.1
Di-isononyl phthalate, DINP	68515-48-0	<0.005	<0.005	<0.005	<0.1
	28553-12-0	<0.005	<0.005	<0.005	
Diisobutyl phthalate, DIBP	84-69-5	<0.005	<0.005	<0.005	<0.1
Di-n-pentyl phthalates, DPENP	131-18-0	<0.005	<0.005	<0.005	<0.1
Di-n-hexyl phthalate, DHEXP	84-75-3	<0.005	<0.005	<0.005	<0.1
Dicyclohexyl phthalate, DCHP	84-61-7	<0.005	<0.005	<0.005	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample (098+ 123a)**	Sample 111	Sample (146+ 180a+ 184a)**	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	<0.005	<0.1
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	<0.005	<0.1
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	<0.005	<0.1
Di-isononyl phthalate, DINP	68515-48-0	<0.005	<0.005	<0.005	<0.1
	28553-12-0	<0.005	<0.005	<0.005	
Diisobutyl phthalate, DIBP	84-69-5	<0.005	<0.005	<0.005	<0.1
Di-n-pentyl phthalates, DPENP	131-18-0	<0.005	<0.005	<0.005	<0.1
Di-n-hexyl phthalate, DHEXP	84-75-3	<0.005	<0.005	<0.005	<0.1
Dicyclohexyl phthalate, DCHP	84-61-7	<0.005	<0.005	<0.005	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

Note 1. “<” denotes less than

2. “%” denotes percentage by weight .

3. Not more than 0.1% of each DEHP, DBP, BBP, DINP, DIBP, DPENP, DHEXP, DCHP for children’s toys and child care articles

4. “\*\*” denotes 081a, 122a, 123a, 180a, 184a do not exist in this product



**3.6 Phthalates Test**

U.S. CFR Title 16 Part 1307

With reference to CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 151	Sample (176+ 158a+ 174a)**	Sample (175+ 296a+ 299a)**	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	<0.005	<0.1
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	<0.005	<0.1
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	<0.005	<0.1
Di-isononyl phthalate, DINP	68515-48-0	<0.005	<0.005	<0.005	<0.1
	28553-12-0	<0.005	<0.005	<0.005	
Diisobutyl phthalate, DIBP	84-69-5	<0.005	<0.005	<0.005	<0.1
Di-n-pentyl phthalates, DPENP	131-18-0	<0.005	<0.005	<0.005	<0.1
Di-n-hexyl phthalate, DHEXP	84-75-3	<0.005	<0.005	<0.005	<0.1
Dicyclohexyl phthalate, DCHP	84-61-7	<0.005	<0.005	<0.005	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

Phthalates	CAS No.	Results [%]		Limit [%]
		Sample (177+182a+ 186a)**	Sample 178	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	<0.1
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	<0.1
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	<0.1
Di-isononyl phthalate, DINP	68515-48-0	<0.005	<0.005	<0.1
	28553-12-0	<0.005	<0.005	
Diisobutyl phthalate, DIBP	84-69-5	<0.005	<0.005	<0.1
Di-n-pentyl phthalates, DPENP	131-18-0	<0.005	<0.005	<0.1
Di-n-hexyl phthalate, DHEXP	84-75-3	<0.005	<0.005	<0.1
Dicyclohexyl phthalate, DCHP	84-61-7	<0.005	<0.005	<0.1
<b>Conclusion</b>		Pass	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight .

3. Not more than 0.1% of each DEHP, DBP, BBP, DINP, DIBP, DPENP, DHEXP, DCHP for children's toys and child care articles

4. "\*\*\*" denotes 158a, 174a, 182a, 186a, 296a, 299a do not exist in this product



**3.7 Total Lead**

California Proposition 65, with reference to consent judgment no. RG-07-356892 settled by superior court of the state of California for the county of Alameda  
 Microwave / Acid Digestion and detection with ICP-OES  
 [Reporting Limit = 10.0mg/kg]

Analyte	Result [mg/kg]		
	Sample (068+093+122a)**	Sample (073+074+081a)**	Sample (075+142a+143a)**
Lead	<10.0	<10.0	10.1
Limit	<100		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 094	Sample 098	Sample 111
Lead	<10.0	<10.0	<10.0
Limit	<90		<100
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 146	Sample 151	Sample (176+158a+174a)**
Lead	<10.0	<10.0	<10.0
Limit	<90	<100	
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample (175+296a+299a)**	Sample (177+182a+186a)**	Sample 178
Lead	<10.0	<10.0	<10.0
Limit	<100		
Conclusion	Pass	Pass	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. "\*\*\*" denotes 081a, 122a, 142a, 143a, 158a, 174a 182a, 186a, 296a, 299a do not exist in this product



**3.8 Total Lead**

California Proposition 65, with reference to Settlement Agreement Ref. 2014-00345

Microwave / Acid Digestion and detection with ICP-OES

[Reporting Limit = 10.0mg/kg]

Analyte	Result [mg/kg]		
	Sample (068+093+122a)**	Sample (073+074+081a)**	Sample (075+142a+ 143a)**
Lead	<10.0	<10.0	10.1
Limit	<90		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 094	Sample 098	Sample 111
Lead	<10.0	<10.0	<10.0
Limit	<90		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 146	Sample 151	Sample (176+158a+ 174a)**
Lead	<10.0	<10.0	<10.0
Limit	<90		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample (175+296a+ 299a)**	Sample (177+182a+ 186a)**	Sample 178
Lead	<10.0	<10.0	<10.0
Limit	<90		
Conclusion	Pass	Pass	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. "\*\*\*" denotes 081a, 122a, 142a, 143a, 158a, 174a 182a, 186a, 296a, 299a do not exist in this product



**3.9 Total Lead**

California Proposition 65, with reference to consent judgment no. BG07350969 settled by superior court of the state of California for the county of Alameda  
 Microwave / Acid Digestion and detection with ICP-OES  
 [Reporting Limit = 10.0mg/kg]

Analyte	Result [mg/kg]		
	Sample (068+093+122a)**	Sample (073+074+081a)**	Sample (075+142a+143a)**
Lead	<10.0	<10.0	10.1
Limit	<600		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 094	Sample 098	Sample 111
Lead	<10.0	<10.0	<10.0
Limit	<600		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 146	Sample 151	Sample (176+158a+174a)**
Lead	<10.0	<10.0	<10.0
Limit	<600		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample (175+296a+299a)**	Sample (177+182a+186a)**	Sample 178
Lead	<10.0	<10.0	<10.0
Limit	<600		
Conclusion	Pass	Pass	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. "\*\*\*" denotes 081a, 122a, 142a, 143a, 158a, 174a 182a, 186a, 296a, 299a do not exist in this product

### 3.10 Phthalates Test

California Proposition 65, with reference to consent judgment no. BG07350969 settled by superior court of the state of California for the county of Alameda

Solvent extraction and GC-MS analysis

[Reporting Limit = 0.005% w/w]

Phthalates	CAS No.	Results [% w/w]			Limit [% w/w]
		Sample (068+ 093+ 122a)**	Sample (073+ 074+ 081a)**	Sample 094	
Dibutyl phthalate, (DBP)	84-74-2	<0.005	<0.005	<0.005	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	<0.005	<0.005	<0.005	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	<0.005	<0.005	<0.005	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	<0.005	<0.005	<0.005	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0	<0.005	<0.005	<0.005	<0.1
	68515-49-1	<0.005	<0.005	<0.005	
<b>Conclusion</b>		Pass	Pass	Pass	-

Phthalates	CAS No.	Results [% w/w]			Limit [% w/w]
		Sample (098+ 123a)**	Sample 111	Sample (146+ 180a+ 184a)**	
Dibutyl phthalate, (DBP)	84-74-2	<0.005	<0.005	<0.005	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	<0.005	<0.005	<0.005	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	<0.005	<0.005	<0.005	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	<0.005	<0.005	<0.005	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0	<0.005	<0.005	<0.005	<0.1
	68515-49-1	<0.005	<0.005	<0.005	
<b>Conclusion</b>		Pass	Pass	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight

3. "\*\*\*" denotes 081a, 122a, 123a, 180a, 184a do not exist in this product





**3.10 Phthalates Test**

California Proposition 65, with reference to consent judgment no. BG07350969 settled by superior court of the state of California for the county of Alameda

Solvent extraction and GC-MS analysis

[Reporting Limit = 0.005% w/w]

Phthalates	CAS No.	Results [% w/w]			Limit [% w/w]
		Sample 151	Sample (176+ 158a+ 174a)**	Sample (175+ 296a+ 299a)**	
Dibutyl phthalate, (DBP)	84-74-2	<0.005	<0.005	<0.005	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	<0.005	<0.005	<0.005	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	<0.005	<0.005	<0.005	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	<0.005	<0.005	<0.005	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0	<0.005	<0.005	<0.005	<0.1
	68515-49-1	<0.005	<0.005	<0.005	
<b>Conclusion</b>		Pass	Pass	Pass	-

Phthalates	CAS No.	Results [% w/w]		Limit [% w/w]
		Sample (177+182a+ 186a)**	Sample 178	
Dibutyl phthalate, (DBP)	84-74-2	<0.005	<0.005	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	<0.005	<0.005	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	<0.005	<0.005	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	<0.005	<0.005	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0	<0.005	<0.005	<0.1
	68515-49-1	<0.005	<0.005	
<b>Conclusion</b>		Pass	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight

3. "\*\*\*" denotes 158a, 174a, 182a, 186a, 296a, 299a do not exist in this product



**3.11 Ghost wipe test (NIOSH 9100) – Lead Content**

California Proposition 65, with reference to Settlement Agreement Ref. 2014-00345

Test with reference to NIOSH 9100 and followed by ICP-MS analysis

[Reporting Limit = 0.1µg/wipe]

Analyte	Result [µg/wipe]		Limit [µg/wipe]
	Sample 329	Sample 330	
Lead (Pb)	<0.1	<0.1	<1.0
<b>Conclusion</b>	Pass	Pass	-

Note 1. "µg/wipe" denotes microgram per wipe

2. "<" denotes less than

**3.12 Total Lead - Illinois Lead Poisoning Prevention Act (410 ILCS 45/6b)**

Microwave Digestion and detection with Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)

[Reporting Limit = 10.0mg/kg]

Analyte	Result [mg/kg]		
	Sample 094	Sample 098	Sample 146
Lead	<10.0	<10.0	<10.0
<b>Limit</b>	<40		
<b>Conclusion</b>	Pass	Pass	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

Labeling Requirement:

According to Illinois Lead Poisoning Prevention Act (410 ILCS 45/6b), any component part of the item that is more than 0.004% (40 parts per million) but less than 0.03% (300 parts per million) by total weight unless that item bears a warning statement that indicates that at least one component part of the item contains lead.

**"WARNING: CONTAINS LEAD. MAY BE HARMFUL IF EATEN OR CHEWED. MAY GENERATE DUST CONTAINING LEAD."**



**3.13 Mechanical and Physical Properties**

Test in accordance with EN 71-1:2014+A1:2018

Sample 329,330		
Clause	Title/ Description	Remark^
4	General Requirements	---
4.1	Material cleanliness	C
4.7	Edges	C
4.8	Points and metallic wires	C
7	Warnings and instructions for use	See Remark <sup>#2</sup>
7.1	General	C
7.2	Toys not intended for children under 36 months	C

**Remark:**

<sup>#2</sup> Labeling review according to Directive 2009/48/EC - Toy Safety Directives

	On Product	On Packaging
CE Marking	Absent	Present -Height of CE mark: 10mm -Sharp and Proportion: Meet -Visibly, Legibly and Indelibly: Meet
Importer's/ Manufacturer's Name and Address	Absent	Absent
Product Identification	Absent	Present

The following marking shall be fulfilled.

- The CE marking shall be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging, in counter display which shall be subject to the general principles set out in Article 30 of Regulation (EC) No. 765/2008.
- The manufacturer's name and address, importer's name and address in EEC shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
- The toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

^ Abbreviation:

C = Complied

**3.14 Flammability**

Test in accordance with EN 71-2:2020

Sample 329,330		
Clause	Title/ Description	Remark^
4.1	General Requirement	C

^ Abbreviation:

C = Complied



### 3.15 Migration of certain elements

With reference to Directive 2009/48/EC and Commission Directive (EU) 2021/1992 on the Safety of Toys

Test with reference to EN 71-3:2019+A1:2021 Migration of certain elements.

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 068	Sample 073	Sample 074	Category III
Soluble Aluminum	<5.00	<5.00	<5.00	28130
Soluble Antimony	<5.00	<5.00	<5.00	560
Soluble Arsenic	<5.00	<5.00	<5.00	47
Soluble Barium	<5.00	<5.00	<5.00	18750
Soluble Boron	<5.00	<5.00	<5.00	15000
Soluble Cadmium	<5.00	<5.00	<5.00	17
Soluble Chromium	<0.04 <sup>#1</sup>	<0.04 <sup>#1</sup>	<0.04 <sup>#1</sup>	CrIII: 460mg/kg CrVI: 0.053mg/kg
Soluble Cobalt	<5.00	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	<5.00	23
Soluble Manganese	<5.00	<5.00	<5.00	15000
Soluble Mercury	<5.00	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	<5.00	460
Soluble Strontium	<5.00	<5.00	<5.00	56000
Soluble Tin	<2.50	<2.50	<2.50	180000
Organic Tin	<7.50 <sup>#3</sup>	<7.50 <sup>#3</sup>	<7.50 <sup>#3</sup>	12
Soluble Zinc	5.05	<5.00	<5.00	46000
<b>Conclusion</b>	Pass	Pass	Pass	-

- Note
1. "<" denotes less than
  2. "mg/kg" denotes milligram per kilogram
  3. "#1" denotes Chromium III and Chromium VI are determined by screening of total Chromium
  4. "#3" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin

### 3.15 Migration of certain elements

With reference to Directive 2009/48/EC and Commission Directive (EU) 2021/1992 on the Safety of Toys

Test with reference to EN 71-3:2019+A1:2021 Migration of certain elements.

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 093	Sample 094	Sample 098*	Category III
Soluble Aluminum	<5.00	<5.00	NA	28130
Soluble Antimony	<5.00	<5.00	NA	560
Soluble Arsenic	<5.00	<5.00	NA	47
Soluble Barium	<5.00	<5.00	NA	18750
Soluble Boron	<5.00	<5.00	NA	15000
Soluble Cadmium	<5.00	<5.00	NA	17
Soluble Chromium	<0.04 <sup>#1</sup>	0.250	NA	CrIII: 460mg/kg CrVI: 0.053mg/kg
Soluble Chromium III	--	0.250 <sup>#2</sup>	--	460
Soluble Chromium VI	--	<0.04 <sup>#2</sup>	--	0.053
Soluble Cobalt	<5.00	<5.00	NA	130
Soluble Copper	<5.00	<5.00	NA	7700
Soluble Lead	<5.00	<5.00	NA	23
Soluble Manganese	<5.00	<5.00	NA	15000
Soluble Mercury	<5.00	<5.00	NA	94
Soluble Nickel	<5.00	<5.00	NA	930
Soluble Selenium	<5.00	<5.00	NA	460
Soluble Strontium	<5.00	<5.00	NA	56000
Soluble Tin	<2.50	<2.50	NA	180000
Organic Tin	<7.50 <sup>#3</sup>	<7.50 <sup>#3</sup>	NA	12
Soluble Zinc	<5.00	8.65	NA	46000
<b>Conclusion</b>	Pass	Pass	Pass	-

Remarks: The toy material samples with sample weight less than 100 mg, were assumed to be 100 mg in calculation  
Actual weight of sample(s) used for analysis which are less than 100 mg.  
Sample 094 : 27.8mg

- Note
1. "<" denotes less than
  2. "mg/kg" denotes milligram per kilogram
  3. \* denotes test specimen less than 10 milligram is not required to test the soluble migrated elements according to EN 71-3:2019+A1:2021
  4. "NA" denotes Not Applicable
  5. "#1" denotes Chromium III and Chromium VI are determined by screening of total Chromium
  6. "#2" denotes Chromium (VI) is determined by Ion Chromatography with UV-VIS Detector and Chromium (III) is calculated by [Total chromium - Chromium (VI)].
  7. "#3" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin

### 3.15 Migration of certain elements

With reference to Directive 2009/48/EC and Commission Directive (EU) 2021/1992 on the Safety of Toys

Test with reference to EN 71-3:2019+A1:2021 Migration of certain elements.

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 111	Sample 146*	Sample 151	Category III
Soluble Aluminum	<5.00	NA	<5.00	28130
Soluble Antimony	<5.00	NA	<5.00	560
Soluble Arsenic	<5.00	NA	<5.00	47
Soluble Barium	<5.00	NA	<5.00	18750
Soluble Boron	<5.00	NA	<5.00	15000
Soluble Cadmium	<5.00	NA	<5.00	17
Soluble Chromium	0.252	NA	<0.04 <sup>#1</sup>	CrIII: 460mg/kg CrVI: 0.053mg/kg
Soluble Chromium III	0.252 <sup>#2</sup>	--	--	460
Soluble Chromium VI	<0.04 <sup>#2</sup>	--	--	0.053
Soluble Cobalt	<5.00	NA	<5.00	130
Soluble Copper	<5.00	NA	<5.00	7700
Soluble Lead	<5.00	NA	<5.00	23
Soluble Manganese	11.1	NA	<5.00	15000
Soluble Mercury	<5.00	NA	<5.00	94
Soluble Nickel	<5.00	NA	<5.00	930
Soluble Selenium	<5.00	NA	<5.00	460
Soluble Strontium	54.1	NA	<5.00	56000
Soluble Tin	<2.50	NA	<2.50	180000
Organic Tin	<7.50 <sup>#3</sup>	NA	<7.50 <sup>#3</sup>	12
Soluble Zinc	12.9	NA	<5.00	46000
<b>Conclusion</b>	Pass	Pass	Pass	-

- Note
1. "<" denotes less than
  2. "mg/kg" denotes milligram per kilogram
  3. \* denotes test specimen less than 10 milligram is not required to test the soluble migrated elements according to EN 71-3:2019+A1:2021
  4. "NA" denotes Not Applicable
  5. "<sup>#1</sup>" denotes Chromium III and Chromium VI are determined by screening of total Chromium
  6. "<sup>#2</sup>" denotes Chromium (VI) is determined by Ion Chromatography with UV-VIS Detector and Chromium (III) is calculated by [Total chromium - Chromium (VI)].
  7. "<sup>#3</sup>" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin



### 3.15 Migration of certain elements

With reference to Directive 2009/48/EC and Commission Directive (EU) 2021/1992 on the Safety of Toys

Test with reference to EN 71-3:2019+A1:2021 Migration of certain elements.

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 175	Sample 176	Sample 177	Category III
Soluble Aluminum	<5.00	<5.00	<5.00	28130
Soluble Antimony	<5.00	<5.00	<5.00	560
Soluble Arsenic	<5.00	<5.00	<5.00	47
Soluble Barium	<5.00	<5.00	<5.00	18750
Soluble Boron	<5.00	<5.00	<5.00	15000
Soluble Cadmium	<5.00	<5.00	<5.00	17
Soluble Chromium	0.050	<0.04 <sup>#1</sup>	<0.04 <sup>#1</sup>	CrIII: 460mg/kg CrVI: 0.053mg/kg
Soluble Chromium III	0.050 <sup>#2</sup>	--	--	460
Soluble Chromium VI	<0.04 <sup>#2</sup>	--	--	0.053
Soluble Cobalt	<5.00	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	<5.00	23
Soluble Manganese	<5.00	<5.00	<5.00	15000
Soluble Mercury	<5.00	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	<5.00	460
Soluble Strontium	<5.00	<5.00	<5.00	56000
Soluble Tin	<2.50	<2.50	<2.50	180000
Organic Tin	<7.50 <sup>#3</sup>	<7.50 <sup>#3</sup>	<7.50 <sup>#3</sup>	12
Soluble Zinc	<5.00	<5.00	6.15	46000
<b>Conclusion</b>	Pass	Pass	Pass	-

- Note
1. "<" denotes less than
  2. "mg/kg" denotes milligram per kilogram
  3. "#1" denotes Chromium III and Chromium VI are determined by screening of total Chromium
  4. "#2" denotes Chromium (VI) is determined by Ion Chromatography with UV-VIS Detector and Chromium (III) is calculated by [Total chromium - Chromium (VI)].
  5. "#3" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin

### 3.15 Migration of certain elements

With reference to Directive 2009/48/EC and Commission Directive (EU) 2021/1992 on the Safety of Toys

Test with reference to EN 71-3:2019+A1:2021 Migration of certain elements.

Migration Elements	Results [mg/kg]	Maximum Permissible Limits [mg/kg]
	Sample 178	Category III
Soluble Aluminum	<5.00	28130
Soluble Antimony	<5.00	560
Soluble Arsenic	<5.00	47
Soluble Barium	<5.00	18750
Soluble Boron	<5.00	15000
Soluble Cadmium	<5.00	17
Soluble Chromium	0.050	CrIII: 460mg/kg CrVI: 0.053mg/kg
Soluble Chromium III	0.050 <sup>#2</sup>	460
Soluble Chromium VI	<0.04 <sup>#2</sup>	0.053
Soluble Cobalt	<5.00	130
Soluble Copper	68.1	7700
Soluble Lead	<5.00	23
Soluble Manganese	5.25	15000
Soluble Mercury	<5.00	94
Soluble Nickel	<5.00	930
Soluble Selenium	<5.00	460
Soluble Strontium	24.1	56000
Soluble Tin	<2.50	180000
Organic Tin	<7.50 <sup>#3</sup>	12
Soluble Zinc	<5.00	46000
<b>Conclusion</b>	Pass	-

Note 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3. "<sup>#2</sup>" denotes Chromium (VI) is determined by Ion Chromatography with UV-VIS Detector and Chromium (III) is calculated by [Total chromium - Chromium (VI)].

4. "<sup>#3</sup>" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin





**3.16 Total Lead**

Regulation (EC) No.1907/2006 (REACH) Annex XVII, Entry 63 and its amendment

Regulation (EU) 2015/628

Microwave / Acid Digestion and detection with ICP-OES

[Reporting Limit = 10.0mg/kg]

Analyte	Result [mg/kg]		
	Sample (068+093+122a)**	Sample (073+074+081a)**	Sample (075+142a+143a)**
Lead	<10.0	<10.0	10.1
Limit	<500		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 094	Sample 098	Sample 111
Lead	<10.0	<10.0	<10.0
Limit	<500		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 146	Sample 151	Sample (176+158a+174a)**
Lead	<10.0	<10.0	<10.0
Limit	<500		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample (175+296a+299a)**	Sample (177+182a+186a)**	Sample 178
Lead	<10.0	<10.0	<10.0
Limit	<500		
Conclusion	Pass	Pass	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. "\*\*\*" denotes 081a, 122a, 142a, 143a, 158a, 174a 182a, 186a, 296a, 299a do not exist in this product

### 3.17 Polycyclic Aromatic Hydrocarbons (PAHs)

Regulation (EC) No.1907/2006 and its amendment (EU) No. 1272/2013

Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 50

Test with reference to AfPS GS 2019:01 PAK Solvent extraction followed by GC-MS analysis

[Reporting Limit = 0.1mg/kg]

PAHs	CAS No.	Results [mg/kg]		
		Sample (073+074+081a)**	Sample 095	Sample 111
Benz[b]fluoranthene (BbFA)	205-99-2	<0.1	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	<0.1	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	<0.1	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	<0.1	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	<0.1	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	<0.1	<0.1	<0.1
Chrysene (CHR)	218-01-9	<0.1	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	<0.1	<0.1	<0.1
<b>Limit</b>		Each <0.5		
<b>Conclusion</b>		Pass	Pass	Pass

PAHs	CAS No.	Results [mg/kg]		
		Sample (151+152a)**	Sample 165	Sample (175+176+174a)**
Benz[b]fluoranthene (BbFA)	205-99-2	<0.1	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	<0.1	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	<0.1	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	<0.1	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	<0.1	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	<0.1	<0.1	<0.1
Chrysene (CHR)	218-01-9	<0.1	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	<0.1	<0.1	<0.1
<b>Limit</b>		Each <0.5		
<b>Conclusion</b>		Pass	Pass	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. Limit: 0.5 mg/kg for Toys (including activity toys): Childcare articles, 1.0 mg/kg for sports equipment such as bicycles, golf clubs, racquets; House-hold utensils, trolleys, walking frames; tools for domestic use; Clothing footwear, gloves and sportswear; Watch-straps wrist-bands, masks, head-bands.

4. "\*\*\*" denotes 081a, 152a, 174a do not exist in this product

### 3.17 Polycyclic Aromatic Hydrocarbons (PAHs)

Regulation (EC) No.1907/2006 and its amendment (EU) No. 1272/2013

Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 50

Test with reference to AfPS GS 2019:01 PAK Solvent extraction followed by GC-MS analysis

[Reporting Limit = 0.1mg/kg]

PAHs	CAS No.	Results [mg/kg]	
		Sample (177+182a+186a)**	Sample 178
Benz[b]fluoranthene (BbFA)	205-99-2	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	<0.1	<0.1
Chrysene (CHR)	218-01-9	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAha)	53-70-3	<0.1	<0.1
<b>Limit</b>		Each <0.5	
<b>Conclusion</b>		Pass	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. Limit: 0.5 mg/kg for Toys (including activity toys): Childcare articles, 1.0 mg/kg for sports equipment such as bicycles, golf clubs, racquets; House-hold utensils, trolleys, walking frames; tools for domestic use; Clothing footwear, gloves and sportswear; Watch-straps wrist-bands, masks, head-bands.

3. "\*\*\*" denotes 182a, 186a do not exist in this product

### 3.18 Phthalates

Regulation (EC) No.1907/2006 and its amendment

Regulation (EU) No. 2018/2005 (REACH) Annex XVII, Entry 51 and 52

Solvent extraction and GC-MS analysis.

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample (068+ 093+ 122a)**	Sample (073+ 074+ 081a)**	Sample 094	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	<0.005	Sum of DEHP, DBP, BBP & DIBP < 0.1% <sup>#1 #3</sup>
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	<0.005	
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	<0.005	
Diisobutylphthalate, (DIBP)	84-69-5	<0.005	<0.005	<0.005	
<b>Sum of DBP, BBP, DEHP, DIBP</b>	-	<0.005	<0.005	<0.005	
Di-n-octyl phthalate, DNOP	117-84-0	<0.005	<0.005	<0.005	Sum of DINP, DIDP & DNOP < 0.1% <sup>#2</sup>
Di-isononyl phthalate, (DINP)	28553-12-0	<0.005	<0.005	<0.005	
	68515-48-0	<0.005	<0.005	<0.005	
Di-isodecyl phthalate, (DIDP)	26761-40-0	<0.005	<0.005	<0.005	
	68515-49-1	<0.005	<0.005	<0.005	
<b>Sum of DINP, DIDP, DNOP</b>	-	<0.005	<0.005	<0.005	
<b>Conclusion</b>		Pass	Pass	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight .

3. "#1" denotes the limit of DEHP, DBP, BBP and DIBP for toys and child care articles.

4. "#2" denotes the limit of DINP, DIDP and DNOP for toys and child care articles that can be placed in the mouth.

5. "#3" denotes the limit of DEHP, DBP, BBP and DIBP for plasticized material in articles.

4. "\*\*\*" denotes 081a, 122a do not exist in this product

### 3.18 Phthalates

Regulation (EC) No.1907/2006 and its amendment

Regulation (EU) No. 2018/2005 (REACH) Annex XVII, Entry 51 and 52

Solvent extraction and GC-MS analysis.

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample (098+123a)**	Sample 111	Sample (146+180a+184a)**	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	<0.005	Sum of DEHP, DBP, BBP & DIBP < 0.1% <sup>#1 #3</sup>
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	<0.005	
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	<0.005	
Diisobutylphthalate, (DIBP)	84-69-5	<0.005	<0.005	<0.005	
<b>Sum of DBP, BBP, DEHP, DIBP</b>	-	<0.005	<0.005	<0.005	
Di-n-octyl phthalate, DNOP	117-84-0	<0.005	<0.005	<0.005	Sum of DINP, DIDP & DNOP < 0.1% <sup>#2</sup>
Di-isononyl phthalate, (DINP)	28553-12-0	<0.005	<0.005	<0.005	
	68515-48-0	<0.005	<0.005	<0.005	
Di-isodecyl phthalate, (DIDP)	26761-40-0	<0.005	<0.005	<0.005	
	68515-49-1	<0.005	<0.005	<0.005	
<b>Sum of DINP, DIDP, DNOP</b>	-	<0.005	<0.005	<0.005	
<b>Conclusion</b>		Pass	Pass	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight .

3. "#1" denotes the limit of DEHP, DBP, BBP and DIBP for toys and child care articles.

4. "#2" denotes the limit of DINP, DIDP and DNOP for toys and child care articles that can be placed in the mouth.

5. "#3" denotes the limit of DEHP, DBP, BBP and DIBP for plasticized material in articles.

6. "\*\*\*" denotes 123a, 180a, 184a do not exist in this product

### 3.18 Phthalates

Regulation (EC) No.1907/2006 and its amendment

Regulation (EU) No. 2018/2005 (REACH) Annex XVII, Entry 51 and 52

Solvent extraction and GC-MS analysis.

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 151	Sample (176+ 158a+ 174a)**	Sample (175+ 296a+ 299a)**	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	<0.005	Sum of DEHP, DBP, BBP & DIBP < 0.1% <sup>#1 #3</sup>
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	<0.005	
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	<0.005	
Diisobutylphthalate, (DIBP)	84-69-5	<0.005	<0.005	<0.005	
<b>Sum of DBP, BBP, DEHP, DIBP</b>	-	<0.005	<0.005	<0.005	
Di-n-octyl phthalate, DNOP	117-84-0	<0.005	<0.005	<0.005	Sum of DINP, DIDP & DNOP < 0.1% <sup>#2</sup>
Di-isononyl phthalate, (DINP)	28553-12-0	<0.005	<0.005	<0.005	
	68515-48-0	<0.005	<0.005	<0.005	
Di-isodecyl phthalate, (DIDP)	26761-40-0	<0.005	<0.005	<0.005	
	68515-49-1	<0.005	<0.005	<0.005	
<b>Sum of DINP, DIDP, DNOP</b>	-	<0.005	<0.005	<0.005	
<b>Conclusion</b>		Pass	Pass	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight .

3. "#1" denotes the limit of DEHP, DBP, BBP and DIBP for toys and child care articles.

4. "#2" denotes the limit of DINP, DIDP and DNOP for toys and child care articles that can be placed in the mouth.

5. "#3" denotes the limit of DEHP, DBP, BBP and DIBP for plasticized material in articles.

6. "\*\*\*" denotes 158a, 174a, 296a, 299a do not exist in this product

### 3.18 Phthalates

Regulation (EC) No.1907/2006 and its amendment

Regulation (EU) No. 2018/2005 (REACH) Annex XVII, Entry 51 and 52

Solvent extraction and GC-MS analysis.

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]		Limit [%]
		Sample (177+182a+186a)**	Sample 178	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	Sum of DEHP, DBP, BBP & DIBP < 0.1% <sup>#1 #3</sup>
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	
Diisobutylphthalate, (DIBP)	84-69-5	<0.005	<0.005	
<b>Sum of DBP, BBP, DEHP, DIBP</b>	-	<0.005	<0.005	
Di-n-octyl phthalate, DNOP	117-84-0	<0.005	<0.005	Sum of DINP, DIDP & DNOP < 0.1% <sup>#2</sup>
Di-isononyl phthalate, (DINP)	28553-12-0	<0.005	<0.005	
	68515-48-0	<0.005	<0.005	
Di-isodecyl phthalate, (DIDP)	26761-40-0	<0.005	<0.005	
	68515-49-1	<0.005	<0.005	
<b>Sum of DINP, DIDP, DNOP</b>	-	<0.005	<0.005	
<b>Conclusion</b>		Pass	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight .

3. "#1" denotes the limit of DEHP, DBP, BBP and DIBP for toys and child care articles.

4. "#2" denotes the limit of DINP, DIDP and DNOP for toys and child care articles that can be placed in the mouth.

5. "#3" denotes the limit of DEHP, DBP, BBP and DIBP for plasticized material in articles.

6. "\*\*\*" denotes 182a, 186a do not exist in this product



**3.19 Total Cadmium**

Regulation (EU) 2016/217, amending Annex XVII to Regulation (EC) No. 1907/2006 Entry 23.  
 Microwave digestion and followed by Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)  
 [Reporting Limit = 10.0mg/kg]

Analyte	Results [mg/kg]		
	Sample (068+093+122a)**	Sample (073+074+081a)**	Sample 094
Cadmium	<10.0	<10.0	<10.0
Limit	<100		<1000
Conclusion	Pass	Pass	Pass

Analyte	Results [mg/kg]		
	Sample 098	Sample 111	Sample 146
Cadmium	<10.0	<10.0	<10.0
Limit	<1000	<100	<1000
Conclusion	Pass	Pass	Pass

Analyte	Results [mg/kg]		
	Sample 151	Sample (176+158a+174a)**	Sample (175+296a+299a)**
Cadmium	<10.0	<10.0	<10.0
Limit	<100		
Conclusion	Pass	Pass	Pass

Analyte	Results [mg/kg]	
	Sample (177+182a+186a)**	Sample 178
Cadmium	<10.0	<10.0
Limit	<100	
Conclusion	Pass	Pass

- Note 1. "mg/kg" denotes milligram per kilogram  
 2. "<" denotes less than  
 3. "\*\*\*" denotes 081a, 122a, 158a, 174a, 182a, 186a, 296a, 299a do not exist in this product

Material / Product	Limit
Plastics	<100 mg/kg
Metal jewellery / imitation jewellery articles and hair accessories	<100 mg/kg
Brazing Fillers	<100 mg/kg
Coating	<1000 mg/kg
Paint with TARIC codes [3208],[3209] Zinc content > 10%	<1000 mg/kg
Paint with TARIC codes [3208],[3209] with Zinc Content ≤ 10%	<100 mg/kg

-- END OF THE TEST REPORT --



# General Terms and Conditions

of TÜV SÜD Hong Kong Limited  
(hereinafter referred to as *the company*)



## 1. General Information and Definitions

- (1.1) In the event that an order for any services is placed, the Client shall accept the General Terms and Conditions. The General Terms and Conditions shall be applicable to all orders, resulting contracts and other arrangements, including all offers made or services provided by the Company or any of its affiliated companies. They are not applicable if and as far as they are in conflict with the regulations on services performed on behalf of governments, government bodies or any other public entity, or they are in conflict with mandatory provisions of local law. The Client's placement of orders as well as the conclusion of contracts with the Company shall be regarded as awareness and acceptance of these General Terms and Conditions.
- (1.2) The Company strongly recommends any Client or potential Client to read the full text of these General Terms and Conditions prior to placement of any order to or conclusion of any contract with the Company. Ancillary agreements, promises and other statements made on the part of the Company staff or the experts called upon by them shall be binding only if they are expressly confirmed by the Company in writing. This shall also apply to any modifications of this clause.

## 2. Provision of Services

- (2.1) With due care and skill, the Company will provide services according to Client's specific instructions as made available by the Client. In the absence of Client's specific instructions, the following is deemed as instructions given to the Company:
- The terms of any standard specification sheet or standard order form provided by the Company; and/or
  - Any relevant usage, practice or trade custom; and/or
  - Such methods the Company considers technically, operationally and/or on financial grounds appropriate.
- (2.2) No other party is entitled to give any instructions particularly on the scope and type of the services or the reports delivered, or on the resulting certificates (the "Reports of Findings"), unless the Company receives prior written instructions to the contrary from the Client. The Client hereby irrevocably authorizes the Company to deliver Reports of Findings to a third party where so instructed by the Client or, at the Company's discretion, where it implicitly follows from circumstances, trade custom, usage or practice.
- (2.3) The Information stated in the Report of Findings is derived from the results of inspection or testing procedures carried out in accordance with the instructions and/or Company's assessment of such results on the basis of any technical standards, trade custom or practice, or other circumstances which should in Company's professional experience be taken into account.
- (2.4) Reports of Findings issued after the testing of samples refer the Company's opinion only on samples under testing and not to the lot from which the samples were drawn.
- (2.5) Client agrees that the Company's sole responsibility is to be present at the time of the third party's intervention and to forward the results, or confirm the occurrence of the intervention, in case Client requests the Company to witness any third party's intervention. Client agrees that the Company will use the test methods for analysis as requested in the request form, and if none is stated in the form, the Company will choose the appropriate test methods for analysis.
- (2.6) The Reports of Findings issued by the Company will reflect the facts as recorded by it at the time of its intervention only and within the limits of the instructions received or, in the absence of such instructions, within the limits of the alternative parameters applied as provided for in Clause 2.1. The Company is under no obligation to refer to, or report upon, any facts or circumstances, which are outside the specific instructions received or alternative parameters applied.
- (2.7) The performance of all or part of the services may be delegated to an agent or subcontractor by the Company. The Client authorizes the Company to disclose all information necessary for such performance to the agent or subcontractor.
- (2.8) Documents reflecting engagements contracted between the Client and third parties or third party documents, e.g. sales contract copies, letters of credit, bills of lading, etc. should be made available to the Company. These are considered to be for information only, and do not extend or restrict the scope of the services or the obligations accepted by the Company.
- (2.9) The Company agrees that, by providing the services to the Client, it neither takes the place of Client or any third party, nor otherwise assumes, abridges, abrogates or undertakes to discharge any duty of the Client to any third party or that of any third party to the Client. Also, it does not release the Client or any third party from any of their obligations.
- (2.10) Depending on the nature of each sample, all samples given to the Company shall be retained for a maximum of 3 months or for such other shorter time period as the nature of the sample permits, and then sent back to Client or otherwise disposed of at the Company's discretion. After that time the Company will not be responsible for the samples. Storage of samples for more than 3 months shall incur a storage fee payable by the Client. If samples are returned to the Client, the Client will be billed a handling and freight fees. Special disposal charges will be billed to the Client if incurred.

## 3. Client's Obligations

The Client shall:

- ensure that all required supporting documents, information and instructions as submitted are accurate, truthful and complete. These information are to be submitted in a timely not later than 2 working days from the date of which the services are requested by the Client
- ensure to give all necessary access for the Company's representatives to the premises where the services are to be performed and to take all necessary steps to eliminate or remedy any obstacles to, or interruptions in the performance of the services;
- make available any special equipment and personnel necessary for the performance of the services, if required;
- ensure that for the safety and security of working conditions, sites and installations, all necessary measures are taken during the performance of services. In this respect, the Client will not rely on the Company's advice whether required or not;
- inform the Company of any known hazards or dangers, actual or potential, associated with any order, samples, testing or any other service rendered by the Company well in advance. Those are, but are not limited to the presence or risk of radiation, environmental pollution or poisons- toxic or noxious or explosive elements or materials;
- fully exercise all its rights and discharge all its liabilities under any relevant sales or other contract with a third party.

## 4. Fees and Payment

- All Fees not agreed on between the Company and Client at the time the order is placed or a contract is concluded shall be determined by the Company's Schedule of Fees (which are subject to change). All applicable taxes shall be paid by Client, as far as mandatory laws do not provide otherwise.
- Unless a specific period is established in the invoice, the Client shall pay upon receiving the invoice, but not later than 30 days from the relevant invoice date or within such other period as may be established by the Company in the invoice (the "Due Date").
- The Client shall not be entitled to retain or defer due payment of any sums to the Company on account of any dispute, counter claim or set-off against the Company. The Company reserves the right to retain or defer any due payments if any dispute arises with or it raises any counterclaim against the Client. The Company is entitled to set off due payments against payments of the Client.
- For the collection of unpaid fees, the Company may decide to bring action in any court with competent jurisdiction. The corresponding collection costs, including attorney's fees and related costs, shall be borne by the Client, as far as the mandatory local law does not provide otherwise.
- In case of any unforeseen problems or expenses arise while carrying out the services, the Company informs the Client. In such cases, the Company shall be entitled to charge additional fees to cover extra time and to invoice extra costs necessarily incurred to complete the services.
- If the Company is unable to perform all or parts of the services for any cause whatsoever beyond the Company's control, including the failure by Client to comply with any of its obligations provided for in the foregoing Clause 3, the Company shall nevertheless be entitled to payments of:
  - The amount of all non-refundable expenses incurred by the Company; and
  - A proportion of the agreed fee equal to the proportion of the services actually carried out.

## 5. Suspension or Termination of Services

In any case mentioned below, the Company shall be entitled to either suspend or terminate the provision of the services immediately and without any liability:

- Failure by the Client to comply with any of its obligations under these General Terms and Conditions

and such failure is not remedied within 10 days after a notice of such failure has been delivered to the Client; or

- Any suspension of payment, arrangement with creditors, bankruptcy, insolvency, receivership or cessation of business by Client.

## 6. Liability and Indemnification

### (6.1) Limitation of Liability.

- Clients seeking a guarantee against loss or damage should obtain appropriate insurance. The Company is neither an insurer nor a guarantor and disclaims all liability in such capacity.
  - Reports of Findings are issued on the basis of the information, documents and/or samples provided by, or on behalf of the Client and solely for the benefit of the Client who is obliged to act on the basis of such Reports of Findings. Neither the Company nor any of its staff, agents or subcontractors shall be liable to the Client nor to any third party for any actions taken or not taken on the basis of such Reports of Findings, or for any incorrect results arising from unclear, erroneous, incomplete, misleading or false information provided to the Company.
  - For any delayed, total or partial non-performance of the services arising directly or indirectly from any event beyond the Company's control, including failure by Client to comply with any of its obligations hereunder, the Company shall not be liable.
  - The liability of the Company in respect of any claim for loss, damage or expense of any nature and howsoever arising shall in no circumstances exceed a total aggregate sum equal to 10 times the amount of the fee paid in respect of the specific service which gives rise to such claim, and shall in any case not exceed the equivalent of 25,000 EUR in HKD.
  - For any indirect or consequential loss (including loss of profits), the Company shall not have any liabilities.
  - In case of any claim, the Client must give written notice to the Company within 30 days of discovery of the facts with all necessary documents to justify such claim. In any case, the Company shall be discharged from all liability for all claims for loss, damage or expense unless a lawsuit is brought within three years from:
    - the performance date of the Company for its services which refers to the claim; or
    - the date when the service should have been completed in the event of any alleged non-performance.
- (6.2) Indemnification Against all claims (actual or threatened) by any third party for loss, damage or expenses of whatsoever nature including all legal expenses and related costs and howsoever arising relating to the performance, purported performance or non-performance of any services, the Client shall guarantee, hold harmless and indemnify the Company and its officers, employees, agents or subcontractors.

## 7. Obligation of Confidentiality, Copyright, Data Privacy Protection

- The Company shall be authorized to make file copies of written documents, which have been made available to it for review and which are important for processing the order.
- Insofar as Reports of Findings are prepared in the course of processing the order and which are subject to the protection of copyright, then the Company shall grant the Client a simple, non-transferable right to use, insofar as this is necessary and in accordance with the contractually presupposed purpose. Other rights shall not be transferred; in particular, the customer shall not be entitled to modify and/or edit audit reports or to make use of such outside of his business premises.
- The Company and its staff which may be called in shall not disclose or use trade and business matters about which they have gained knowledge during the performance of their work without proper authorization, or unless instructed by a court or authorized body (e.g. regulatory authority, accreditation body or certification scheme owner) or otherwise legally required.
- For all nonpublic personal information, protected health information, other personal information, and personal data as each of those terms is defined in or by application of each respective privacy regulations under Governing Law (collectively, the "Personal Data"), the Client confirms that the Personal Data has been collected and processed and that consents required to provide the Personal Data to the Company have been obtained in accordance with the privacy regulations under Governing Law; and the Company shall only store, process, transfer and use the Client's Personal Data for the proper implementation of orders, contracts and for its own purposes and shall observe the applicable privacy regulations. To this end, the Company will also use automated data processing systems.

## 8. Miscellaneous

- The validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired, even if any one or more provisions of these General Conditions are found to be illegal or unenforceable in any respect.
- Client shall not directly or indirectly entice, encourage or make any offer to Company's employees to leave their employment with the Company, during the course of providing the services and for a period of one year thereafter.
- Use of the Company's corporate name or registered marks for advertising purposes is not permitted without the Company's prior written authorization.

## 9. Governing Law, Jurisdiction and Dispute Settlement

- Unless specifically agreed otherwise, all disputes arising out of or in connection with contractual relationship(s) hereunder shall be governed by the applicable laws and regulations of the Hong Kong S.A.R Region.
- Place of performance for any obligation arising out of this contract shall be Hong Kong, the Place of the TÜV SÜD Hong Kong Limited unless otherwise expressly agreed by the parties.

## 10. Languages

In the event of any discrepancy between the English and the Chinese version of these General Terms and Conditions, the English version shall prevail.