



Test Report

Date : 2024-11-14
No. : DC24080676

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Applicant(Code: 08317097) : One For Fun Limited
3-5 Cambuslang Way, Gateway Office Park, Cambuslang, Glasgow,
G32 8ND

Description of Sample(s) : Sample(s) received is/ are stated to be:
Sensory Surprise Vending Machine
Style/ Item No.: SV22042
Country of Origin: CHINA
Age Grading for Testing: 5+

Date Sample(s) Received : 2024-08-16;2024-08-28;2024-11-04

Date Tested : 2024-08-16 to 2024-08-30;2024-11-04 to 2024-11-14

Investigation Requested : Please refer to result summary on next page

Conclusion(s) : Please refer to result summary on next page

A handwritten signature in blue ink, appearing to read 'Yan Liang, Sky'.

Yan Liang, Sky
Authorized Signatory



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Result Summary:

No.	Test Requested	Conclusion	Remark
1	Total lead content in substrate materials - United states consumer product safety improvement act (CPSIA), section 101(a)	PASS	-
2	Total lead content - California proposition 65 settlement	PASS	-
3	Cadmium and its compounds content - entry 23 of annex XVII to (EC) No.1907/2006 REACH Regulation	PASS	-
4	Heavy metal content - ASTM F963-23 standard consumer safety specification for toy safety, section 4.3.5	PASS	-
5	Migration of certain elements - EN 71-3:2019+A1:2021	PASS	-
6	Phthalates content in plasticizer materials - United states consumer product safety improvement act (CPSIA), section 108	PASS	-
7	Phthalates content listed on California proposition 65 settlement	PASS	-
8	Phthalates content in toys and child care articles - entries 51 and 52 of annex XVII to (EC) No.1907/2006 REACH Regulation and its amending regulation (EU) 2018/2005	PASS	-
9	Mechanical and physical properties - EN71-1 :2014+A1: 2018	PASS	-
10	Flammability test -EN71-2:2020	PASS	-
11	ASTM F963-23: Physical and mechanical tests	PASS	-
12	ASTM F963-23: Flammability test	PASS	-

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RESULT(S):

TOTAL LEAD CONTENT IN SUBSTRATE MATERIALS - UNITED STATES CONSUMER PRODUCT SAFETY IMPROVEMENT ACT (CPSIA), SECTION 101(a)

Method Used: CPSC testing method CPSC-CH-E1001-08.3 (for metallic materials) or CPSC-CH-E1002-08.3 (for non-metallic substrate materials), analyzed by Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample Identity	Item / Component Description	Style
1	Brown / white cardboard with glue (box)	-
2	Blue plastic (knob)	-
3	Transparent plastic (inner box)	-
4	Deep blue plastic (eggshell)	-
5	Yellow plastic (eggshell)	-
6	Rose red plastic (eggshell)	-
7	Orange plastic (Rubik's Cube)	-
8	White plastic (Rubik's Cube)	-
9	Dull rose red plastic (Rubik's Cube)	-
10	Green plastic (Rubik's Cube)	-
11	Orange yellow plastic (Rubik's Cube)	-
12	Dull nude plastic (Rubik's Cube lobster clip body / switch)	-
13	Blue / pink purple / white plastic (decompression blocks)	-
14	Orange plastic (telescopic pipe)	-
15	Peach pink / orange yellow plastic with black coating (spring tube)	-
16	Green translucent plastic (bomb)	-
17	Deep orange plastic (fingertip gyroscope)	-
18	Orange yellow plastic (fingertip gyroscope)	-
19	Green plastic (fingertip gyroscope)	-
20	Blue plastic (fingertip gyroscope)	-
21	Yellow plastic with black / red coating (chick)	-
22	Pink plastic with black coating (piglet)	-
23	Purple plastic with black / white coating (kitten)	-
24	Blue plastic with black coating (bunny)	-
25	White plastic with black coating (puppy)	-
26	Purple blue plastic with black / pink coating (koala)	-
27	Silvery metal (Rubik's Cube lobster clip spring)	-
28	Silvery metal (Rubik's Cube lobster clip single ring)	-

Element	Lead (Pb)
Maximum Allowable Limit (mg/kg):	100

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Test Item(s)	Result (mg/kg)	Conclusion
1	ND	Pass
2+3+4	ND	Pass
5+6+7	ND	Pass
8+9+10	ND	Pass
11+12+13	ND	Pass
14+15	ND	Pass
16	ND	Pass
17+18+19	ND	Pass
20+21	ND	Pass
22+23+24	ND	Pass
25+26	ND	Pass
27	ND	Pass
28	ND	Pass

Note(s):

- ND = Not Detected
- Method detection limit: 5 mg/kg
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Remark(s):

- According to 16 CFR 1500.88: Exemptions from lead limits under section 101 of the Consumer Product Safety Improvement Act for Certain Electronic Device, exemption were granted to steel alloy containing up to 0.35 % lead by weight, aluminum containing up to 0.4 % lead by weight and copper-based alloy containing up to 4 % lead by weight.
- For composite testing the acceptance limit should be divided by the no. of samples in the mix, i.e. limit/n (where n = no. of mixed sample).
- Tested part(s) was/ were specified by client.

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TOTAL LEAD CONTENT - CALIFORNIA PROPOSITION 65 SETTLEMENT

Method Used: In-house method, acid digestion and analyzed by Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample Identity	Item/ Component Description	Style
1	Brown / white cardboard with glue (box)	-
2	Blue plastic (knob)	-
3	Transparent plastic (inner box)	-
4	Deep blue plastic (eggshell)	-
5	Yellow plastic (eggshell)	-
6	Rose red plastic (eggshell)	-
7	Orange plastic (Rubik's Cube)	-
8	White plastic (Rubik's Cube)	-
9	Dull rose red plastic (Rubik's Cube)	-
10	Green plastic (Rubik's Cube)	-
11	Orange yellow plastic (Rubik's Cube)	-
12	Dull nude plastic (Rubik's Cube lobster clip body / switch)	-
13	Blue / pink purple / white plastic (decompression blocks)	-
14	Orange plastic (telescopic pipe)	-
15	Peach pink / orange yellow plastic with black coating (spring tube)	-
16	Green translucent plastic (bomb)	-
17	Deep orange plastic (fingertip gyroscope)	-
18	Orange yellow plastic (fingertip gyroscope)	-
19	Green plastic (fingertip gyroscope)	-
20	Blue plastic (fingertip gyroscope)	-
21	Yellow plastic with black / red coating (chick)	-
22	Pink plastic with black coating (piglet)	-
23	Purple plastic with black / white coating (kitten)	-
24	Blue plastic with black coating (bunny)	-
25	White plastic with black coating (puppy)	-
26	Purple blue plastic with black / pink coating (koala)	-
27	Silvery metal (Rubik's Cube lobster clip spring)	-
28	Silvery metal (Rubik's Cube lobster clip single ring)	-

Maximum Allowable Limit :	For type I paint and surface coating materials	90 mg/kg
	For type II substrate materials	100 mg/kg

Test Item(s)	Type	Result (mg/kg)	Conclusion
1	II	ND	Pass
2+3+4	II	ND	Pass
5+6+7	II	ND	Pass
8+9+10	II	ND	Pass
11+12+13	II	ND	Pass
14+15	II	ND	Pass

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Test Item(s)	Type	Result (mg/kg)	Conclusion
16	II	ND	Pass
17+18+19	II	ND	Pass
20+21	II	ND	Pass
22+23+24	II	ND	Pass
25+26	II	ND	Pass
27	II	ND	Pass
28	II	ND	Pass

Note(s):

- ND = Not Detected
- Method detection limit: 5mg/kg
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Remark(s):

- The test(s) was/ were performed as per client's request (to comply with the future California Proposition 65 settlement requirement).
- Maximum allowable limit was based on stringent California Proposition 65 settlement requirement.
- For composite testing the acceptance limit should be divided by the no. of samples in the mix, i.e. limit/n (where n = no. of mixed sample).
- Tested part(s) was/ were specified by client.

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CADMIUM AND ITS COMPOUNDS CONTENT - ENTRY 23 OF ANNEX XVII TO (EC) NO.1907/2006 REACH REGULATION

Method Used: In-house method, acid digestion and analyzed by Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample Identity	Item/ Component Description	Style
1	Brown / white cardboard with glue (box)	-
2	Blue plastic (knob)	-
3	Transparent plastic (inner box)	-
4	Deep blue plastic (eggshell)	-
5	Yellow plastic (eggshell)	-
6	Rose red plastic (eggshell)	-
7	Orange plastic (Rubik's Cube)	-
8	White plastic (Rubik's Cube)	-
9	Dull rose red plastic (Rubik's Cube)	-
10	Green plastic (Rubik's Cube)	-
11	Orange yellow plastic (Rubik's Cube)	-
12	Dull nude plastic (Rubik's Cube lobster clip body / switch)	-
13	Blue / pink purple / white plastic (decompression blocks)	-
14	Orange plastic (telescopic pipe)	-
15	Peach pink / orange yellow plastic with black coating (spring tube)	-
16	Green translucent plastic (bomb)	-
17	Deep orange plastic (fingertip gyroscope)	-
18	Orange yellow plastic (fingertip gyroscope)	-
19	Green plastic (fingertip gyroscope)	-
20	Blue plastic (fingertip gyroscope)	-
21	Yellow plastic with black / red coating (chick)	-
22	Pink plastic with black coating (piglet)	-
23	Purple plastic with black / white coating (kitten)	-
24	Blue plastic with black coating (bunny)	-
25	White plastic with black coating (puppy)	-
26	Purple blue plastic with black / pink coating (koala)	-

Element	Cadmium (Cd)
Maximum Allowable Limit for type I - Paints:	1000 mg/kg
Maximum Allowable Limit for type II - Metal components of jewellery or plastic materials:	100 mg/kg

Test Item(s)	Type	Result (mg/kg)	Conclusion
1	II	ND	Pass
2+3+4	II	ND	Pass
5+6+7	II	ND	Pass
8+9+10	II	ND	Pass
11+12+13	II	ND	Pass

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Test Item(s)	Type	Result (mg/kg)	Conclusion
14+15	II	ND	Pass
16	II	ND	Pass
17+18+19	II	ND	Pass
20+21	II	ND	Pass
22+23+24	II	ND	Pass
25+26	II	ND	Pass

Note(s):
- ND = Not Detected
- Method detection limit: 5 mg/kg
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Remark(s):
- For composite testing the acceptance limit should be divided by the no. of samples in the mix, i.e. limit/n (where n = no. of mixed sample).
- Tested part(s) was/ were specified by client.

HEAVY METAL CONTENT - ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY, SECTION 4.3.5

Method Used: ASTM F963-23, Section 8.3, and analyzed by Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample Identity	Item / Component Description	Style
1	Brown / white cardboard with glue (box)	-
2	Blue plastic (knob)	-
3	Transparent plastic (inner box)	-
4	Deep blue plastic (eggshell)	-
5	Yellow plastic (eggshell)	-
6	Rose red plastic (eggshell)	-
7	Orange plastic (Rubik's Cube)	-
8	White plastic (Rubik's Cube)	-
9	Dull rose red plastic (Rubik's Cube)	-
10	Green plastic (Rubik's Cube)	-
11	Orange yellow plastic (Rubik's Cube)	-
12	Dull nude plastic (Rubik's Cube lobster clip body / switch)	-
13	Blue / pink purple / white plastic (decompression blocks)	-
14	Orange plastic (telescopic pipe)	-
15	Peach pink / orange yellow plastic with black coating (spring tube)	-
16	Green translucent plastic (bomb)	-
17	Deep orange plastic (fingertip gyroscope)	-
18	Orange yellow plastic (fingertip gyroscope)	-
19	Green plastic (fingertip gyroscope)	-
20	Blue plastic (fingertip gyroscope)	-
21	Yellow plastic with black / red coating (chick)	-

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Sample Identity	Item / Component Description	Style
22	Pink plastic with black coating (piglet)	-
23	Purple plastic with black / white coating (kitten)	-
24	Blue plastic with black coating (bunny)	-
25	White plastic with black coating (puppy)	-
26	Purple blue plastic with black / pink coating (koala)	-
27	Silvery metal (Rubik's Cube lobster clip spring)	-
28	Silvery metal (Rubik's Cube lobster clip single ring)	-

Maximum Allowable Limit	Materials Type (appendix)	Total Pb (mg/kg)	Soluble Heavy Elements(mg/kg)								Extractable Cd (µg/sample)
	I	90	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	-
	II	100 ^[a]	-	-	-	-	-	-	-	-	-
	III	100 ^[a]	25	1000	75	60	60	90	60	500	200 ^[b]
	IV	100	-	-	-	-	-	-	-	-	-
	V	100	25	1000	75	60	60	90	60	500	-
	VI	100	25	250	50	25	25	90	60	500	-
	VII	-	25	1000	75	60	60	-	60	500	-
	VIII	100	25	1000	75	60	60	90	60	500	-
Soluble Analytical Correction (%)			60	30	30	30	50	30	60	60	-

-	Unit	Result				
Test Item(s)	-	1	2	3	4	5
Type	-	VIII	VIII	VIII	VIII	VIII
Total Pb	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	Pass	Pass	Pass	Pass	Pass

-	Unit	Result				
Test Item(s)	-	6	7	8	9	10
Type	-	VIII	VIII	VIII	VIII	VIII
Total Pb	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	Pass	Pass	Pass	Pass	Pass

-	Unit	Result				
Test Item(s)	-	11	12	13	14	15
Type	-	VIII	VIII	VIII	VIII	VIII
Total Pb	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	Pass	Pass	Pass	Pass	Pass

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-	Unit	Result				
Test Item(s)	-	16	17	18	19	20
Type	-	VIII	VIII	VIII	VIII	VIII
Total Pb	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	Pass	Pass	Pass	Pass	Pass

-	Unit	Result				
Test Item(s)	-	21	22	23	24	25
Type	-	VIII	VIII	VIII	VIII	VIII
Total Pb	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	Pass	Pass	Pass	Pass	Pass

-	Unit	Result		
Test Item(s)	-	26	27	28
Type	-	VIII	II	III
Total Pb	mg/kg	ND	ND	ND
Conclusion	-	Pass	Pass	Pass

-	Unit	Result				
Test Item(s)	-	1	2	3	4	5
Type	-	VIII	VIII	VIII	VIII	VIII
Mass of Trace Amount	g	-	-	-	-	-
Parameter	-	-	-	-	-	-
As	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Ba	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Cd	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Cr	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Hg	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Sb	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Pb	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Se	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Extractable Cd	µg/sample	-	-	-	-	-
Conclusion	-	Pass	Pass	Pass	Pass	Pass

-	Unit	Result				
Test Item(s)	-	6	7	8	9	10
Type	-	VIII	VIII	VIII	VIII	VIII
Mass of Trace Amount	g	-	-	-	-	-
Parameter	-	-	-	-	-	-
As	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Ba	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Cd	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Cr	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Hg	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)

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-	Unit	Result				
Test Item(s)	-	6	7	8	9	10
Type	-	VIII	VIII	VIII	VIII	VIII
Mass of Trace Amount	g	-	-	-	-	-
Parameter	-	-	-	-	-	-
Sb	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Pb	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Se	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Extractable Cd	µg/sample	-	-	-	-	-
Conclusion	-	Pass	Pass	Pass	Pass	Pass

-	Unit	Result				
Test Item(s)	-	11	12	13	14	15
Type	-	VIII	VIII	VIII	VIII	VIII
Mass of Trace Amount	g	-	-	-	-	-
Parameter	-	-	-	-	-	-
As	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Ba	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Cd	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Cr	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Hg	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Sb	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Pb	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Se	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Extractable Cd	µg/sample	-	-	-	-	-
Conclusion	-	Pass	Pass	Pass	Pass	Pass

-	Unit	Result				
Test Item(s)	-	16	17	18	19	20
Type	-	VIII	VIII	VIII	VIII	VIII
Mass of Trace Amount	g	-	-	-	-	-
Parameter	-	-	-	-	-	-
As	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Ba	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Cd	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Cr	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Hg	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Sb	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Pb	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Se	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Extractable Cd	µg/sample	-	-	-	-	-
Conclusion	-	Pass	Pass	Pass	Pass	Pass

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-	Unit	Result				
Test Item(s)	-	21	22	23	24	25
Type	-	VIII	VIII	VIII	VIII	VIII
Mass of Trace Amount	g	-	-	-	-	-
Parameter	-	-	-	-	-	-
As	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Ba	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Cd	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Cr	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Hg	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Sb	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Pb	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Se	mg/kg	ND(S)	ND(S)	ND(S)	ND(S)	ND(S)
Extractable Cd	µg/sample	-	-	-	-	-
Conclusion	-	Pass	Pass	Pass	Pass	Pass

-	Unit	Result		
Test Item(s)	-	26	27	28
Type	-	VIII	II	III
Mass of Trace Amount	g	-	-	-
Parameter	-	-	-	-
As	mg/kg	ND(S)	ND(S)	ND(S)
Ba	mg/kg	ND(S)	ND(S)	ND(S)
Cd	mg/kg	ND(S)	ND(S)	ND(S)
Cr	mg/kg	ND(S)	ND(S)	ND(S)
Hg	mg/kg	ND(S)	ND(S)	ND(S)
Sb	mg/kg	ND(S)	ND(S)	ND(S)
Pb	mg/kg	ND(S)	ND(S)	ND(S)
Se	mg/kg	ND(S)	ND(S)	ND(S)
Extractable Cd	µg/sample	-	-	-
Conclusion	-	Pass	Pass	Pass

Note(s):

- ND = Not Detected
- Method detection limit: Total screening 5 mg/kg (each); Soluble 5 mg/kg (each)
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million
- g = gram(s)
- µg = microgram
- % = percent
- As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Hg = Mercury, Pb = Lead, Sb = Antimony, Se = Selenium
- T = Total, S = Soluble
- NA = Not Applicable

Remark(s): - ^[a] According to Children's Products Containing Lead; Exemptions for Certain Electronic Devices;

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Final Rule 16 CRF 1500.88, exemption were granted to steel alloy containing up to 0.35 % lead by weight, aluminum containing up to 0.4 % lead by weight and copper-based alloy containing up to 4 % lead by weight.

- ^[b] Metal materials that fit within the small parts cylinder and that contain less than 75mg/kg total cadmium do not need to be tested to the special 24 hour soluble cadmium test method to demonstrate compliance to the 200 µg soluble requirement.
- Test Item(s) with total heavy metals content exceeding maximum allowable limit should be considered as Data and further tested by soluble heavy metals analysis of ASTM International Standard ASTM F963-23, Sections 8.3.2 to 8.3.5(excluding 8.3.5.5(3)) as specified in Section 8.3.1.3.
- Test Item(s) with total heavy metals content not exceeding maximum allowable limit should be considered as Pass and no need perform further soluble heavy metals analysis of ASTM International Standard ASTM F963-23, Sections 8.3.2 to 8.3.5 as specified in Section 8.3.1.3.
- For Soluble heavy elements content test, reported result(s) was/ were adjusted by analytical correction as specified in Section 8.3.4.3.
- NA^[c] For Soluble heavy elements content test, paint or similar surface-coating materials that can't be removed by scraping with a sharp blade will be tested with base materials.
- NA^[d] For Soluble heavy elements content test, no tested on component(s) less than 10 milligrams by weight on one single sample as specified in Section 8.3.3.6 (2).
- Tested part(s) was/ were specified by client.

APPENDIX

List of Material Types :			
Type	Material Description	Type	Material Description
I	Paints and similar surface Coatings	V	Glass/ Ceramic –small part
II	Metallic materials – non-small part	VI	Modelling clay
III	Metallic materials – small part	VII	Fabrics and other material exempted by 16CFR 1500.91 (except paper and paperboard)
IV	Glass/ Ceramic – non-small part	VIII	Other materials other than I-VII (except paper and paperboard)

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MIGRATION OF CERTAIN ELEMENTS - EN 71-3:2019+A1:2021

Method Used: EN71-3:2019+A1:2021, analyzed by Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer, Coupled Argon Plasma Atomic Emission Spectrophotometer with Mass Selective Detector, Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry, Gas Chromatography with Mass Selective Detector

Sample Identity	Colour/ Component	Style
1	Brown / white cardboard with glue (box)	-
2	Blue plastic (knob)	-
3	Transparent plastic (inner box)	-
4	Deep blue plastic (eggshell)	-
5	Yellow plastic (eggshell)	-
6	Rose red plastic (eggshell)	-
7	Orange plastic (Rubik's Cube)	-
8	White plastic (Rubik's Cube)	-
9	Dull rose red plastic (Rubik's Cube)	-
10	Green plastic (Rubik's Cube)	-
11	Orange yellow plastic (Rubik's Cube)	-
12	Dull nude plastic (Rubik's Cube lobster clip body / switch)	-
13	Blue / pink purple / white plastic (decompression blocks)	-
14	Orange plastic (telescopic pipe)	-
15	Peach pink / orange yellow plastic with black coating (spring tube)	-
16	Green translucent plastic (bomb)	-
17	Deep orange plastic (fingertip gyroscope)	-
18	Orange yellow plastic (fingertip gyroscope)	-
19	Green plastic (fingertip gyroscope)	-
20	Blue plastic (fingertip gyroscope)	-
21	Yellow plastic with black / red coating (chick)	-
22	Pink plastic with black coating (piglet)	-
23	Purple plastic with black / white coating (kitten)	-
24	Blue plastic with black coating (bunny)	-
25	White plastic with black coating (puppy)	-
26	Purple blue plastic with black / pink coating (koala)	-
27	Silvery metal (Rubik's Cube lobster clip spring)	-
28	Silvery metal (Rubik's Cube lobster clip single ring)	-

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-	Unit	Result					Limit for type III: scrapped-off toy material(mg/kg)
Test Item(s)	-	1	2	3	4	5	
Mass of Trace Amount	g	-	-	-	-	-	
Parameter	-	-	-	-	-	-	
Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	23
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	17
Chromium(III)	mg/kg	ND	ND	ND	ND	ND	460
Barium (Ba)	mg/kg	15	ND	ND	ND	ND	18750
Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	560
Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	47
Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	94
Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	460
Aluminum (Al)	mg/kg	934	ND	ND	ND	ND	28130
Boron (B)	mg/kg	38	ND	ND	ND	ND	15000
Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	130
Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	7700
Manganese (Mn)	mg/kg	23	ND	ND	ND	ND	15000
Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	930
Strontium (Sr)	mg/kg	29	ND	ND	ND	ND	56000
Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	180000
Zinc (Zn)	mg/kg	23	ND	ND	ND	ND	46000
Chromium(VI)	mg/kg	ND	ND	ND	ND	ND	0.053
Organic tin	mg/kg	ND	ND	ND	ND	ND	12
Conclusion	-	Pass	Pass	Pass	Pass	Pass	-

-	Unit	Result					Limit for type III: scrapped-off toy material(mg/kg)
Test Item(s)	-	6	7	8	9	10	
Mass of Trace Amount	g	-	-	-	-	-	
Parameter	-	-	-	-	-	-	
Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	23
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	17
Chromium(III)	mg/kg	ND	ND	ND	ND	ND	460
Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	18750
Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	560
Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	47
Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	94
Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	460
Aluminum (Al)	mg/kg	ND	ND	ND	5	ND	28130
Boron (B)	mg/kg	ND	ND	ND	ND	ND	15000
Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	130
Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	7700
Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	15000
Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	930
Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	56000

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-	Unit	Result					Limit for type III: scrapped-off toy material(mg/kg)
Test Item(s)	-	6	7	8	9	10	
Mass of Trace Amount	g	-	-	-	-	-	
Parameter	-	-	-	-	-	-	
Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	180000
Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	46000
Chromium(VI)	mg/kg	ND	ND	ND	ND	ND	0.053
Organic tin	mg/kg	ND	ND	ND	ND	ND	12
Conclusion	-	Pass	Pass	Pass	Pass	Pass	-

-	Unit	Result					Limit for type III: scrapped-off toy material(mg/kg)
Test Item(s)	-	11	12	13	14	15	
Mass of Trace Amount	g	-	-	-	-	-	
Parameter	-	-	-	-	-	-	
Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	23
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	17
Chromium(III)	mg/kg	ND	ND	ND	ND	ND	460
Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	18750
Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	560
Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	47
Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	94
Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	460
Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	28130
Boron (B)	mg/kg	ND	ND	ND	ND	ND	15000
Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	130
Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	7700
Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	15000
Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	930
Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	56000
Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	180000
Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	46000
Chromium(VI)	mg/kg	ND	ND	ND	ND	ND	0.053
Organic tin	mg/kg	ND	ND	ND	ND	ND	12
Conclusion	-	Pass	Pass	Pass	Pass	Pass	-

-	Unit	Result					Limit for type III: scrapped-off toy material(mg/kg)
Test Item(s)	-	16	17	18	19	20	
Mass of Trace Amount	g	-	-	-	-	-	
Parameter	-	-	-	-	-	-	
Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	23
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	17
Chromium(III)	mg/kg	ND	ND	ND	ND	ND	460
Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	18750
Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	560

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-	Unit	Result					Limit for type III: scrapped-off toy material(mg/kg)
Test Item(s)	-	16	17	18	19	20	
Mass of Trace Amount	g	-	-	-	-	-	
Parameter	-	-	-	-	-	-	
Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	47
Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	94
Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	460
Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	28130
Boron (B)	mg/kg	ND	ND	ND	ND	ND	15000
Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	130
Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	7700
Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	15000
Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	930
Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	56000
Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	180000
Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	46000
Chromium(VI)	mg/kg	ND	ND	ND	ND	ND	0.053
Organic tin	mg/kg	ND	ND	ND	ND	ND	12
Conclusion	-	Pass	Pass	Pass	Pass	Pass	-

-	Unit	Result					Limit for type III: scrapped-off toy material(mg/kg)
Test Item(s)	-	21	22	23	24	25	
Mass of Trace Amount	g	-	-	-	-	-	
Parameter	-	-	-	-	-	-	
Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	23
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	17
Chromium(III)	mg/kg	ND	ND	ND	ND	ND	460
Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	18750
Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	560
Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	47
Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	94
Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	460
Aluminum (Al)	mg/kg	ND	35	ND	ND	ND	28130
Boron (B)	mg/kg	ND	ND	ND	ND	ND	15000
Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	130
Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	7700
Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	15000
Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	930
Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	56000
Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	180000
Zinc (Zn)	mg/kg	ND	1024	ND	ND	ND	46000
Chromium(VI)	mg/kg	ND	ND	ND	ND	ND	0.053
Organic tin	mg/kg	ND	ND	ND	ND	ND	12
Conclusion	-	Pass	Pass	Pass	Pass	Pass	-

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-	Unit	Result			Limit for type III: scrapped-off toy material(mg/kg)
Test Item(s)	-	26	27	28	
Mass of Trace Amount	g	-	-	-	
Parameter	-	-	-	-	
Lead (Pb)	mg/kg	ND	ND	ND	23
Cadmium (Cd)	mg/kg	ND	ND	ND	17
Chromium(III)	mg/kg	ND	ND	ND	460
Barium (Ba)	mg/kg	ND	ND	ND	18750
Antimony (Sb)	mg/kg	ND	ND	ND	560
Arsenic (As)	mg/kg	ND	ND	ND	47
Mercury (Hg)	mg/kg	ND	ND	ND	94
Selenium (Se)	mg/kg	ND	ND	ND	460
Aluminum (Al)	mg/kg	10	91	ND	28130
Boron (B)	mg/kg	ND	ND	ND	15000
Cobalt (Co)	mg/kg	ND	62	ND	130
Copper (Cu)	mg/kg	ND	10	416	7700
Manganese (Mn)	mg/kg	ND	5982	ND	15000
Nickel (Ni)	mg/kg	ND	430	ND	930
Strontium (Sr)	mg/kg	ND	13	ND	56000
Tin (Sn)	mg/kg	ND	ND	142	180000
Zinc (Zn)	mg/kg	ND	16	ND	46000
Chromium(VI)	mg/kg	ND	ND	ND	0.053
Organic tin	mg/kg	ND	ND	ND	12
Conclusion	-	Pass	Pass	Pass	-

Note(s):
- ND = Not Detected
- Method detection limit (mg/kg):
For type III: Cr(VI) 0.02; Soluble tin 2, Organic tin 0.2, Others 5
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Remark(s): - Tested part(s) was/ were specified by client.



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PHthalates Content in Plasticizer Materials - United States Consumer Product Safety Improvement Act (CPSIA), Section 108

Method Used: CPSC testing method CPSC-CH-C1001-09.4, analyzed by Gas Chromatography with Mass Selective Detector

Sample Identity	Item / Component Description	Style
1	Brown / white cardboard with glue (box)	-
2	Blue plastic (knob)	-
3	Transparent plastic (inner box)	-
4	Deep blue plastic (eggshell)	-
5	Yellow plastic (eggshell)	-
6	Rose red plastic (eggshell)	-
7	Orange plastic (Rubik's Cube)	-
8	White plastic (Rubik's Cube)	-
9	Dull rose red plastic (Rubik's Cube)	-
10	Green plastic (Rubik's Cube)	-
11	Orange yellow plastic (Rubik's Cube)	-
12	Dull nude plastic (Rubik's Cube lobster clip body / switch)	-
13	Blue / pink purple / white plastic (decompression blocks)	-
14	Orange plastic (telescopic pipe)	-
15	Peach pink / orange yellow plastic with black coating (spring tube)	-
16	Green translucent plastic (bomb)	-
17	Deep orange plastic (fingertip gyroscope)	-
18	Orange yellow plastic (fingertip gyroscope)	-
19	Green plastic (fingertip gyroscope)	-
20	Blue plastic (fingertip gyroscope)	-
21	Yellow plastic with black / red coating (chick)	-
22	Pink plastic with black coating (piglet)	-
23	Purple plastic with black / white coating (kitten)	-
24	Blue plastic with black coating (bunny)	-
25	White plastic with black coating (puppy)	-
26	Purple blue plastic with black / pink coating (koala)	-

Maximum Allowable Limit	Children's toy or child care article: BBP, DBP, DEHP, DINP, DIBP, DNPP, DNHP or DCHP no more than 0.1%
-------------------------	---

Test Parameter:	BBP	DBP	DEHP	DINP	DIBP	DNPP	DNHP	DCHP	Conclusion
Test Item(s)	Result(s) (%)								
1	ND	0.046	ND	ND	ND	ND	ND	ND	Pass
2+3+4	ND	ND	ND	ND	ND	ND	ND	ND	Pass
5+6+7	ND	ND	ND	ND	ND	ND	ND	ND	Pass
8+9+10	ND	ND	ND	ND	ND	ND	ND	ND	Pass

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Test Parameter:	BBP	DBP	DEHP	DINP	DIBP	DNPP	DNHP	DCHP	Conclusion
Test Item(s)	Result(s) (%)								
11+12+13	ND	ND	ND	ND	ND	ND	ND	ND	Pass
14	ND	ND	ND	ND	ND	ND	ND	ND	Pass
15	ND	ND	ND	ND	ND	ND	ND	ND	Pass
16	ND	ND	ND	ND	ND	ND	ND	ND	Pass
17+18+19	ND	ND	ND	ND	0.008	ND	ND	ND	Pass
20+21	ND	ND	ND	ND	ND	ND	ND	ND	Pass
22+23+24	ND	ND	ND	ND	ND	ND	ND	ND	Pass
25+26	ND	ND	ND	ND	ND	ND	ND	ND	Pass

Note(s):

- ND = Not Detected
- Reported in percentage %(w/w)
- Method detection Limit:
BBP = Butyl benzyl phthalate (CAS No.: 85-68-7): 0.005%
DBP = Dibutyl phthalate (CAS No.: 84-74-2): 0.005%
DEHP = Di (2-ethylhexyl) phthalate (CAS No.: 117-81-7): 0.005%
DIBP = Diisobutyl phthalate (CAS No.: 84-69-5): 0.005%
DNPP = Di-n-pentyl Phthalate (CAS No.: 131-18-0): 0.005%
DNHP = Di-n-hexyl Phthalate (CAS No.: 84-75-3): 0.005%
DCHP = Dicyclohexyl Phthalate (CAS No.: 84-61-7): 0.005%
DINP = Di-iso-nonyl phthalate (CAS No.: 28553-12-0/68515-48-0): 0.01%

Remark(s):

- For composite testing the acceptance limit should be divided by the no. of samples in the mix, i.e. limit/n (where n = no. of mixed sample).
- Tested part(s) was/ were specified by client.

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PHthalates Content Listed on California Proposition 65 Settlement

Method Used: CPSC testing method CPSC-CH-C1001-09.4 , analyzed by Gas Chromatography with Mass Selective Detector

Sample Identity	Item / Component Description	Style
1	Brown / white cardboard with glue (box)	-
2	Blue plastic (knob)	-
3	Transparent plastic (inner box)	-
4	Deep blue plastic (eggshell)	-
5	Yellow plastic (eggshell)	-
6	Rose red plastic (eggshell)	-
7	Orange plastic (Rubik's Cube)	-
8	White plastic (Rubik's Cube)	-
9	Dull rose red plastic (Rubik's Cube)	-
10	Green plastic (Rubik's Cube)	-
11	Orange yellow plastic (Rubik's Cube)	-
12	Dull nude plastic (Rubik's Cube lobster clip body / switch)	-
13	Blue / pink purple / white plastic (decompression blocks)	-
14	Orange plastic (telescopic pipe)	-
15	Peach pink / orange yellow plastic with black coating (spring tube)	-
16	Green translucent plastic (bomb)	-
17	Deep orange plastic (fingertip gyroscope)	-
18	Orange yellow plastic (fingertip gyroscope)	-
19	Green plastic (fingertip gyroscope)	-
20	Blue plastic (fingertip gyroscope)	-
21	Yellow plastic with black / red coating (chick)	-
22	Pink plastic with black coating (piglet)	-
23	Purple plastic with black / white coating (kitten)	-
24	Blue plastic with black coating (bunny)	-
25	White plastic with black coating (puppy)	-
26	Purple blue plastic with black / pink coating (koala)	-

Maximum Allowable Limit :	DBP, BBP, DEHP, DnHP, DIDP, DINP each 0.1%
---------------------------	--

Test Parameter	BBP	DBP	DEHP	DIDP	DnHP	DINP	Conclusion
Tested Item(s)	Result (%)						
1	ND	0.046	ND	ND	ND	ND	Pass
2+3+4	ND	ND	ND	ND	ND	ND	Pass
5+6+7	ND	ND	ND	ND	ND	ND	Pass
8+9+10	ND	ND	ND	ND	ND	ND	Pass
11+12+13	ND	ND	ND	ND	ND	ND	Pass
14	ND	ND	ND	ND	ND	ND	Pass
15	ND	ND	ND	ND	ND	ND	Pass
16	ND	ND	ND	ND	ND	ND	Pass

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Test Parameter	BBP	DBP	DEHP	DIDP	DnHP	DINP	Conclusion
Tested Item(s)	Result (%)						
17+18+19	ND	ND	ND	ND	ND	ND	Pass
20+21	ND	ND	ND	ND	ND	ND	Pass
22+23+24	ND	ND	ND	ND	ND	ND	Pass
25+26	ND	ND	ND	ND	ND	ND	Pass

Note(s):

- ND = Not Detected
- Results reported in percentage % (w/w)
- Method detection Limit:
 - BBP = Butyl benzyl phthalate (CAS No.: 85-68-7): 0.005%
 - DBP = Dibutyl phthalate (CAS No.: 84-74-2): 0.005%
 - DEHP = Di (2-ethylhexyl) phthalate (CAS No.: 117-81-7): 0.005%
 - DIDP = Di-iso-decyl phthalate (CAS No.: 26761-40-0/ 68515-49-1): 0.01%
 - DnHP = Di-n-Hexyl phthalate (CAS No.: 84-75-3):0.005%
 - DINP = Di-iso-nonyl phthalate (CAS No.: 28553-12-0/68515-48-0): 0.01%

Remark(s):

- The test(s) was/ were performed as per client's request to comply with the future California Proposition 65 settlement requirement.
- Maximum allowable limit was based on stringent California Proposition 65 settlement requirement.
- For composite testing the acceptance limit should be divided by the no. of samples in the mix, i.e. limit/n (where n = no. of mixed sample).
- Tested part(s) was/ were specified by client.

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PHthalATES CONTENT IN TOYS AND CHILD CARE ARTICLES - ENTRIES 51 AND 52 OF ANNEX XVII TO (EC) NO.1907/2006 REACH REGULATION AND ITS AMENDING REGULATION (EU) 2018/2005

Test Method: Refer to EN14372:2004 and analyzed by Gas Chromatography with Mass Selective detector

Sample Identity	Item / Component Description	Style
1	Brown / white cardboard with glue (box)	-
2	Blue plastic (knob)	-
3	Transparent plastic (inner box)	-
4	Deep blue plastic (eggshell)	-
5	Yellow plastic (eggshell)	-
6	Rose red plastic (eggshell)	-
7	Orange plastic (Rubik's Cube)	-
8	White plastic (Rubik's Cube)	-
9	Dull rose red plastic (Rubik's Cube)	-
10	Green plastic (Rubik's Cube)	-
11	Orange yellow plastic (Rubik's Cube)	-
12	Dull nude plastic (Rubik's Cube lobster clip body / switch)	-
13	Blue / pink purple / white plastic (decompression blocks)	-
14	Orange plastic (telescopic pipe)	-
15	Peach pink / orange yellow plastic with black coating (spring tube)	-
16	Green translucent plastic (bomb)	-
17	Deep orange plastic (fingertip gyroscope)	-
18	Orange yellow plastic (fingertip gyroscope)	-
19	Green plastic (fingertip gyroscope)	-
20	Blue plastic (fingertip gyroscope)	-
21	Yellow plastic with black / red coating (chick)	-
22	Pink plastic with black coating (piglet)	-
23	Purple plastic with black / white coating (kitten)	-
24	Blue plastic with black coating (bunny)	-
25	White plastic with black coating (puppy)	-
26	Purple blue plastic with black / pink coating (koala)	-

Maximum Allowable Limit	Type I	Component of toys and childcare articles can be placed in a child's mouth: Sum of (BBP, DBP, DEHP, DIBP) and each kind of these phthalates < 0.1% & Sum of (DNOP, DINP, DIDP) < 0.1%
	Type II	Article be placed on the market after 7 July 2020: Sum of (BBP, DBP, DEHP, DIBP) and each kind of these phthalates < 0.1%

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Tested Item(s)	Result (%)			
	1	2+3+4	5+6+7	8+9+10
Type	I	I	I	I
Tested Parameter	-	-	-	-
Di (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND
Benzyl-n-butyl phthalate (BBP)	ND	ND	ND	ND
Di-n-butyl phthalate (DBP)	0.046	ND	ND	ND
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND
Sum of DEHP,BBP&DBP&DIBP	0.046	ND	ND	ND
Diisononyl phthalate (DINP)	ND	ND	ND	ND
Diisodecyl phthalate (DIDP)	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	ND	ND	ND	ND
Sum of DINP,DIDP&DNOP	ND	ND	ND	ND
Conclusion	Pass	Pass	Pass	Pass

Tested Item(s)	Result (%)			
	11+12+13	14	15	16
Type	I	I	I	I
Tested Parameter	-	-	-	-
Di (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND
Benzyl-n-butyl phthalate (BBP)	ND	ND	ND	ND
Di-n-butyl phthalate (DBP)	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND
Sum of DEHP,BBP&DBP&DIBP	ND	ND	ND	ND
Diisononyl phthalate (DINP)	ND	ND	ND	ND
Diisodecyl phthalate (DIDP)	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	ND	ND	ND	ND
Sum of DINP,DIDP&DNOP	ND	ND	ND	ND
Conclusion	Pass	Pass	Pass	Pass

Tested Item(s)	Result (%)			
	17+18+19	20+21	22+23+24	25+26
Type	I	I	I	I
Tested Parameter	-	-	-	-
Di (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND
Benzyl-n-butyl phthalate (BBP)	ND	ND	ND	ND
Di-n-butyl phthalate (DBP)	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	0.008	ND	ND	ND
Sum of DEHP,BBP&DBP&DIBP	0.008	ND	ND	ND
Diisononyl phthalate (DINP)	ND	ND	ND	ND
Diisodecyl phthalate (DIDP)	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	ND	ND	ND	ND
Sum of DINP,DIDP&DNOP	ND	ND	ND	ND
Conclusion	Pass	Pass	Pass	Pass

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Note(s):

- ND = Not Detected
- Results reported in percentage %(w/w)
- Method detection limit:
 - BBP = Butyl benzyl phthalate (CAS No.: 85-68-7): 0.005%
 - DBP = Dibutyl phthalate (CAS No.: 84-74-2): 0.005%
 - DEHP = Di (2-ethylhexyl) phthalate (CAS No.: 117-81-7): 0.005%
 - DNOP = Di-n-octyl phthalate (CAS No.:117-84-0): 0.005%
 - DINP = Di-iso-nonyl phthalate (CAS No.:28553-12-0/68515-48-0): 0.01%
 - DIDP = Di-iso-decyl phthalate (CAS No.: 26761-40-0/ 68515-49-1): 0.01%
 - DIBP = Diisobutyl phthalate (CAS No. 84-69-5) : 0.005%

Remark(s):

- For composite testing the acceptance limit should be divided by the no. of samples in the mix, i.e. limit/n (where n = no. of mixed sample).
- Tested part(s) was/ were specified by client.

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AGE GRADING:

The sample was appropriately age graded with the marking of “5+”.

AGE GRADING FOR TESTING:

5 years up

Test Results:

EN71

EN71-1 :2014 + A1:2018 Mechanical and physical properties

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>General requirements</u>	----
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
7	Marking and instructions for use	----
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass

EN71-2: 2020: Flammability test

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General	Pass

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ASTM F 963-23

Mechanical and physical hazards

Ref.: ASTM F963-23

Applicable requirements before and after use and abuse testing:

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	----
4.1	Material quality	Pass
4.2	Flammability	Pass
4.6	Small objects	Pass
4.7	Accessible edges	Pass
4.9	Accessible points	Pass
5	<u>Labeling requirements</u>	----
5.1	Federal Government Requirements	Pass
5.2	Age Grading Labeling	Pass
5.3	Safety labeling requirements	Pass
5.11	Small objects, small balls, marbles and balloons	Pass
5.15	Promotional Materials	Pass
6	<u>Instructional Literature</u>	----
6.1	Definition and Description	Pass
7	<u>Producer's markings</u>	----
7.1	Name and address of the producer or distributor	Pass

Use and abuse testing:

<u>Applicable Clause</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal use testing	
8.6	Abuse testing	
8.7	Drop test	4drops at 3ft.
8.8	Torque test	4in-lb.
8.9	Tension test	15lb.
8.10	Compression tests	30lb.

Standard Consumer Safety Specification for Toy Safety - Flammability test of material other than textiles of sample group

Ref: ASTM F963-23 Clause4.2

Result: Pass

Samples

Sensory Surprise Vending Machine

Burning rate (.xx in/s)

0.04

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