



# Test Report

**Applicant Name** : N.J. Croce Co.  
**Address** : 8436 Track Road, Nampa ID 83686  
**Contact person** : Nick  
**Supplier** : New Bauhinia Ltd  
**Buyer** : Nick Croce  
**Receive Date** : December 12, 2020      **Report Date** : December 30, 2020

**The following information is declared by the applicant:**

- Sample Description : See the form below  
- Origin : CHINA  
- Export To : U.S, Canada, Australia, New Zealand  
- Final Packaging Provided : Yes  
- Order No. : NIL  
- Age Grading : 3 years and up  
- SKU No. : See the form below  
- UPC-A No. : See the form below

Investigation Requested: Please refer to the next page.

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For and on behalf of  
ZHEJIANG QIT TESTING TECHNOLOGY SERVICE CO.,LTD  
浙江恒祥检测技术服务有限公司

  
Authorized Signature(s)



Photo	SKU No.	Product Name	UPC-A No.
	AB 5007	ACTION BENDALBES! - Unicorn	054382050078
	AB 5008	ACTION BENDALBES! - Soldier	054382050085
	AB 5009	ACTION BENDALBES! - Pirate	054382050092
	AB 5010	ACTION BENDALBES! - Mermaid	054382050108
	AB 5011	ACTION BENDALBES! - Alien	054382050115
	AB 5012	ACTION BENDALBES! - Ninja	054382050122
	BB 900	Betty Boop 5" Bendable	054382059002
	BB 950	Betty Boop Bendable Boxed Set	054382119508



Photo	SKU No.	Product Name	UPC-A No.
	BN 3501	Mr. Bean Bendable	054382035013
	FB 601	Felix The Cat 5" Bendable	054382026011
	MRB 2600	Mr. Bill 5" Bendable in Blister Card	054382026004
	PB 1400	Popeye 6.5" Bendable	054382051402
	PB 1410	Olive Oyl 6.5" Bendable	054382051419
	PBR 1400	Popeye Retro Bendable Boxed Set	054382041403
	REL 4501	Jesus of Nazareth Bendable	054382345013
	REL 4502	Mary Mother of Jesus Bendable	054382345020



Photo	SKU No.	Product Name	UPC-A No.
	GP 100	Gumby 6" Bendable Figure	054382011000
	GP 101	Pokey 5" Bendable	054382011017
	GP 116	Gumby and Pokey 6" Bendable Pair	054382011161
	GP 115	Gumby and Friends Bendable Boxed Set	054382011154
	GP 118	Gumby "Many Moods" Boxed Set	054382011185
	GP 125	1950s Gumby & Pokey Boxed Pair	054382011253
	GP 117	Blockheads 5" Bendable Pair	054382011178
	GP 102	Gumby and Pokey Mini Bendable Pair	054382111021



Photo	SKU No.	Product Name	UPC-A No.
	GP 106-H	Gumby Mini 3" Bendable	054382011062
	GP 107-H	Pokey Mini 3" Bendable	054382011079
	KR 108	Gumby 3" Bendable Keychain	054382011086
	KR 109	Pokey 3" Bendable Keychain	054382011093
	KR 12	Biker Betty Boop 3D Keychain	054382500061
	KR 15	Betty Boop Wink 3D Keychain	054382021535
	KR 16	Basic Betty 3D Keychain	054382500160
	KR 17	Betty Boop I Love You 3D Keychain	054382021733



Photo	SKU No.	Product Name	UPC-A No.
	KR 600	Felix 3" Bendable Keychain	054382256005
	KRB 2600	Mr. Bill 3" Bendable Keychain	054382226008
	KR 1403	Popeye 3" Bendable Keychain	054382214036
---	GPR 124	Dr. Gumby 6" Bendable	---
---	GPR 126	Semper Gumby 6" Bendable	---
---	GPR 150	Retro Gumby 6" Bendable	---
---	GPR 151	Retro Pokey 5" Bendable	---
---	GPR 152	Retro Gumby & Pokey 3" Pair	---



**Test Requested and Conclusion(s)**

No.	Standard and Requirement	Conclusion(s)
1	ASTM Standard Consumer Safety Specification for Toy Safety F963-17	-----
	- Physical and Mechanical Test	PASS
	- Flammability Test	PASS
	- Heavy Metal Test	PASS
2	Mechanical Hazards	-----
	- Small Parts Test, Sharp Point Tests and Sharp Metal or Glass Edge	PASS
3	16 CFR Part 1500.44	-----
	- Flammability Test	PASS
4	Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195 & SOR/2016-302 & SOR/2018-138 under Canada Consumer Product Safety Act(CCPSA)	-----
	- Physical and Mechanical Test	PASS
	- Flammability Test	PASS
	- Toxic Element Analysis in Surface Coating Test	PASS
5	Australian/New Zealand Standard for Safety of Toys	-----
	- AS/NZS ISO 8124.1:2019, Mechanical and Physical Properties	PASS
	- AS/NZS 8124.2:2016, Flammability	PASS
	- AS/NZS ISO 8124.3:2012+A1:2016, Migration of Certain Elements	PASS
6	US Consumer Product Safety Improvement Act	-----
	- Total Lead Content Test	PASS
	- Phthalates Content Test	PASS
	- Tracking Labels Test	PASS
7	California Proposition 65	-----
	- Total Lead Content Test	PASS
	- Total Cadmium Content Test	PASS
	- Phthalates Content Test	PASS
8	Illinois Public Act 097-0612(SB 1943)	-----
	- Total Lead Content Test	PASS
9	Washington Children's Safe Products Act	-----
	- Total Cadmium Content Test	PASS
10	California Assembly Bill No.1108	-----
	- Phthalates Content Test	PASS
11	San Francisco Health Code	-----
	- Phthalates Content Test	PASS



No.	Standard and Requirement	Conclusion(s)
12	The Toxics in Packaging Clearinghouse(TPCH)	-----
	- Heavy Metals Test	PASS
13	Consumer Products Containing Lead (Contact with Mouth) Regulations SOR/2018-83 under Canada Consumer Product Safety Act (CCPSA)	-----
	- Total Lead Content Test	PASS
14	Surface Coating Materials Regulations SOR/2016-193 under Canada Consumer Product Safety Act(CCPSA)	-----
	- Toxic Element Analysis	PASS
15	Products Containing Mercury Regulations SOR/2014-254 under Canadian Environmental Protection Act	-----
	- Total Mercury Content Test	PASS
16	Phthalates Regulations SOR/2016-188 under Canada Consumer Product Safety Act(CCPSA)	-----
	- Phthalates Content Test	NA
Remark: 1. The results relate only to the samples tested. 2. NA=Not Applicable		

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*





**Test Part(s) Description**

No.	Component Description(s)	Remark
1	Other: brown paperboard with multicolor film(box)(#1)	-----
2	Plastic: transparent slice(box)(#1)	-----
3	Other: brown paperboard with blue/white ink(inside box)(#1)	-----
4	Plastic: transparent model(inside box)(#1)	-----
5	Rubber: orange(#1)	-----
6	Coating: black(#1)	-----
7	Coating: blue(#1)	-----
8	Coating: white(#1)	-----
9	Rubber: green(#1)	-----
10	Coating: red(#1)	-----
11	Coating: yellow(#1)	-----
12	Rubber: blue(#2)	-----
13	Rubber: yellow(#2)	-----
14	Rubber: red(#2)	-----
15	Rubber: dark green(#2)	-----
16	Rubber: pink(#2)	-----
17	Rubber: light blue(#3)	-----
18	Coating: green(#3)	-----
19	Coating: red(#3)	-----
20	Coating: pink(#3)	-----
21	Rubber: light nude(#4)	-----
22	Coating: yellow(#4)	-----
23	Coating: brown(#4)	-----
24	Coating: light green(#4)	-----
25	Coating: blue(#4)	-----
26	Coating: apricot(#4)	-----
27	Coating: dark blue(#4)	-----
28	Coating: green(#5)	-----
29	Coating: yellow(#5)	-----
30	Coating: red(#5)	-----
31	Coating: grass green(#5)	-----
32	Rubber: white(#5)	-----
33	Other: white fabric(#5)	-----



No.	Component Description(s)	Remark
34	Other: apricot rope(#5)	-----
35	Other: red fabric(#5)	-----
36	Rubber: transparent elastic(#5)	-----
37	Coating: light red(#5)	-----
38	Coating: silver(#5)	-----
39	Other: grey paperboard with multicolor ink(#6)	-----
40	Rubber: pink(#6)	-----
41	Coating: red(#6)	-----
42	Coating: blue(#6)	-----
43	Coating: brown(#6)	-----
44	Coating: golden(#7)	-----
45	Coating: brown(#7)	-----
46	Rubber: dark yellow(#7)	-----
47	Coating: brown(#8)	-----
48	Coating: orange(#8)	-----
49	Coating: yellow(#8)	-----
50	Coating: blue(#8)	-----
51	Coating: dark pink(#8)	-----
52	Rubber: apricot(#9)	-----
53	Coating: red(#9)	-----
54	Rubber: orange(#10)	-----
55	Coating: blue(#10)	-----
56	Coating: grey(#11)	-----
57	Coating: brown(#11)	-----
58	Coating: red(#11)	-----
59	Coating: yellow(#11)	-----
60	Coating: light brown(#11)	-----
61	Rubber: light orange(#12)	-----
62	Plastic: transparent hook(#17)	-----
63	Coating: light blue(#17)	-----
64	Coating: blue(#21)	-----
65	Rubber: black(#22 )	-----
66	Coating: red(#22)	-----
67	Coating: brown(#23)	-----



No.	Component Description(s)	Remark
68	Coating: grey(#23)	-----
69	Coating: blue(#23)	-----
70	Coating: green(#23)	-----
71	Coating: dark green(#23)	-----
72	Coating: skin color(#24)	-----
73	Rubber: pink(#25)	-----
74	Coating: red(#25)	-----
75	Coating: purple(#25)	-----
76	Coating: orange(#25)	-----
77	Coating: green(#25)	-----
78	Coating: green(#26)	-----
79	Rubber: grey(#27)	-----
80	Coating: yellow(#27)	-----
81	Coating: orange(#27)	-----
82	Coating: blue(#27)	-----
83	Metal: silver plating hook(#30)	-----
84	Metal: silver plating buckle(#30)	-----
85	Metal: silver plating wire(#30)	-----
86	Metal: silver plating eyelet(#30)	-----
87	Metal: silver plating semi-ring(#30)	-----
88	Metal: silver plating lobster clip with semi-ring(#30)	-----
89	Metal: silver plating ring(#30)	-----
90	Metal: silver plating chain(#30)	-----
91	Metal: silver plating bar(#30)	-----
92	Metal: silver plating ring(small)(#30)	-----
93	Coating: green(#30)	-----
94	Coating: orange(#30)	-----
95	Coating: blue(#32)	-----
96	Coating: grey(#32)	-----
97	Plastic: transparent bag(#39)	-----



**TEST RESULTS:**

**1. ASTM Standard Consumer Safety Specification for Toy Safety F963-17**

Age grading : The sample(s) was age graded with the following marking:"3+";  
Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up

**1.1.1 Mechanical and Physical Hazards of the Submitted Sample**

**(#1~#4, #6, #8~#16, #18~#19, #21~#23, #25, #29)**

Ref.: ASTM F963-17

Applicable requirements before and after use and abuse testing:

Description	Result
4 Safety Requirements	---
4.1 Material quality(visual check on cleanness)	Pass
4.6 Small objects	Pass
4.7 Accessible edges	Pass
4.9 Accessible points	Pass
5 Labeling Requirements	---
5.2 Age grading labeling	Pass
7 Producer's Markings	---
7.1 Name and address of the producer or the distributor	Pass
Note(s): 1. Tested part(s) was/were specified by client.	



Age grading : The sample(s) was age graded with the following marking:"3+";  
Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up

**1.1.2 Mechanical and Physical Hazards of the Submitted Sample (#5, #24, #26, #27, #28)**

Ref.: ASTM F963-17

Applicable requirements before and after use and abuse testing:

Description	Result
4 Safety Requirements	---
4.1 Material quality(visual check on cleanness)	Pass
4.6 Small objects	Pass
4.7 Accessible edges	Pass
4.9 Accessible points	Pass
5 Labeling Requirements	---
5.2 Age grading labeling	Pass
5.3 Safety labeling requirements	Pass
5.11 Small objects, small balls, marbles, and balloons	Pass
7 Producer's Markings	---
7.1 Name and address of the producer or the distributor	Pass
Note(s): 1. Tested part(s) was/were specified by client.	

Age grading : The sample(s) was age graded with the following marking:"6+";  
Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up

**1.1.3 Mechanical and Physical Hazards of the Submitted Sample (#17, #20)**

Ref.: ASTM F963-17

Applicable requirements before and after use and abuse testing:

Description	Result
4 Safety Requirements	---
4.1 Material quality(visual check on cleanness)	Pass
4.6 Small objects	Pass
4.7 Accessible edges	Pass
4.9 Accessible points	Pass
5 Labeling Requirements	---
5.2 Age grading labeling	Pass
7 Producer's Markings	---
7.1 Name and address of the producer or the distributor	Pass
Note(s): 1. Tested part(s) was/were specified by client.	



Age grading : The sample(s) was age graded with the following marking:"8+";  
Tested age grading was specified by client:"8+".  
Age grading for testing : 8 years and up

**1.1.4 Mechanical and Physical Hazards of the Submitted Sample (#7)**

Ref.: ASTM F963-17

Applicable requirements before and after use and abuse testing:

Description	Result
4 Safety Requirements	---
4.1 Material quality(visual check on cleanness)	Pass
5 Labeling Requirements	---
5.2 Age grading labeling	Pass
7 Producer's Markings	---
7.1 Name and address of the producer or the distributor	Pass
Note(s):	
1. Tested part(s) was/were specified by client.	
2. The customer did not provide the physical label. This test is based on the photo of label. According to the customer statement, the label on the physical sample will be the same as the photo.	

Age grading : The sample(s) was age graded with the following marking:"3+";  
Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up

**1.1.5 Mechanical and Physical Hazards of the Submitted Sample (#30~#34, #36~#38)**

Ref.: ASTM F963-17

Applicable requirements before and after use and abuse testing:

Description	Result
4 Safety Requirements	---
4.1 Material quality(visual check on cleanness)	Pass
4.6 Small objects	Pass
4.7 Accessible edges	Pass
4.9 Accessible points	Pass
4.11 Nails and fasteners	Pass
4.18 Holes, clearance and accessibility of mechanisms	Pass
5 Labeling Requirements	---
5.2 Age grading labeling	Pass
7 Producer's Markings	---
7.1 Name and address of the producer or the distributor	Pass
Note(s):	
1. Tested part(s) was/were specified by client.	



Age grading : The sample(s) was age graded with the following marking:"8+";  
Tested age grading was specified by client:"8+".  
Age grading for testing : 8 years and up

**1.1.6 Mechanical and Physical Hazards of the Submitted Sample (#35)**

Ref.: ASTM F963-17

Applicable requirements before and after use and abuse testing:

Description	Result
4 Safety Requirements	---
4.1 Material quality(visual check on cleanness)	Pass
4.11 Nails and fasteners	Pass
5 Labeling Requirements	---
5.2 Age grading labeling	Pass
7 Producer's Markings	---
7.1 Name and address of the producer or the distributor	Pass
Note(s):	
1. Tested part(s) was/were specified by client.	
2. The customer did not provide the physical label. This test is based on the photo of label. According to the customer statement, the label on the physical sample will be the same as the photo.	



Age grading : The sample did not contain any age grade;  
Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up

**1.1.7 Mechanical and Physical Hazards of the Submitted Sample (#39, #40)**

Ref.: ASTM F963-17

Applicable requirements before and after use and abuse testing:

Description	Result
4 Safety Requirements	---
4.1 Material quality(visual check on cleanness)	Pass
4.6 Small objects	Pass
4.7 Accessible edges	Pass
4.9 Accessible points	Pass
4.12 Plastic film	Pass
5 Labeling Requirements	---
5.2 Age grading labeling	See note 1
7 Producer's Markings	---
7.1 Name and address of the producer or the distributor	See note 2

Note(s):

1. All toys should be labeled to indicate the minimum age for intended use or have such labeling on any retail packaging.
2. Not conduct as per client's request
3. Tested part(s) was/were specified by client.





## 1.2 Flammability Test for Solids and Soft Toys

Ref.: ASTM F963-17 A5

Sample	Result
#1~#40	Pass

Note(s):

1. DNI=Did Not Ignite
2. Ignite But Self-Extinguished before burn rate could be determined.
3. In accordance with the ASTM F963, the burn rate should not be greater than 0.1 in. per second; if the burn rate of all samples is greater than 0.1 in./s (2.5 mm/s) but less than 0.15 in./s (3.75 mm/s), accept and consider further investigation for action to improve performance.

Exemptions:

1. Strings, paper, and ping-pong balls
2. Accessible components having a major dimension of 1 in. (25 mm) or less.
3. Textile fabrics intended to be removed shall be tested separately and meet the requirements of A6.1. Fabrics not intended to be removed shall become subject to the test to the extent that it becomes a part of the test surface.
4. Sleeping bags
5. Packaging materials intended to be discarded by the consumer. Components of packaging that are likely to be incorporated into the play pattern of the toy are not exempt.

## 1.3 Heavy Metal Test

Ref.: ASTM F963-17

Paint/similar surface-coating and toys substrate materials

### 1.3.1 Soluble Metals Test

Test item(s)	Result(mg/kg)									Coatings and substrates (mg/kg)
	5	6	7	8	9	10	11	12		
Pb	ND	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	ND	500



Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	13	14	15	16	17	18	19	20	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	21	22	23	24	25	26	27	28	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	29	30	31	32	36	37	38	40	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500



Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	41	42	43	44	45	46	47	48	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	49	50	51	52	53	54	55	56	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	57	58	59	60	61	63	64	65	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500



Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	66	67	68	69	70	71	72	73	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	74	75	76	77	78	79	80	81	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	82	88	90	91	92	93	94	95	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500



Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	96	/	/	/	/	/	/	/	
Pb	ND	/	/	/	/	/	/	/	90
Sb	ND	/	/	/	/	/	/	/	60
As	ND	/	/	/	/	/	/	/	25
Ba	ND	/	/	/	/	/	/	/	1000
Cd	ND	/	/	/	/	/	/	/	75
Cr	ND	/	/	/	/	/	/	/	60
Hg	ND	/	/	/	/	/	/	/	60
Se	ND	/	/	/	/	/	/	/	500

- Note(s):
1. According to the Standard, if the quantities of the elements were between 10 and 100 mg, calculated as 100 mg of test portion.
  2. According to the Standard, if the quantities of the elements were less than 10 mg, it is not necessary to conduct the test.
  3. ND = Not Detected
  4. Method detection limit: 5mg/kg(Pb, Sb, Ba, Cd, Se),2.5mg/kg(As, Cr, Hg)
  5. mg/kg = milligram(s) per kilogram = ppm = part(s) per million
  6. Tested part(s) was/were specified by client.

## **2. Mechanical Hazards**

### **2.1.1 Small Parts Test, Sharp Point Tests and Sharp Metal or Glass Edge**

#### **(#1~#6, #8~#16, #18~#19, #21~#34, #36~#38)**

Age grading : The sample(s) was age graded with the following marking:"3+";  
Tested age grading was specified by client:"3+".

Age grading for testing : 36-96 months

Applicable requirements before and after use and abuse testing:

Description	Result
16 CFR 1501 Small parts	NA
16 CFR 1500.48 Sharp points	Pass
16 CFR 1500.49 Sharp metal or glass edges	Pass

- Note(s):
1. Tested part(s) was/were specified by client.
  2. NA=Not Applicable



Use and abuse testing	
Description	Test Condition
Normal Use Testing	/
Abuse Testing	/
Impact Tests	4 times at 3feet
Torque Tests	4 in·lbf or $\pm 180^\circ$
Tension Tests	15 lbf
Compression Tests	30 lbf
Bite Tests	100 lbf
Flexure Test	15 lbf

Note(s): 1. Test condition(s) was/were specified by client.

**2.1.2 Small Parts Test, Sharp Point Tests and Sharp Metal or Glass Edge (#17, #20)**

Age grading : The sample(s) was age graded with the following marking:"6+";  
Tested age grading was specified by client:"3+".

Age grading for testing : 36-96 months

Applicable requirements before and after use and abuse testing:

Description	Result
16 CFR 1501 Small parts	NA
16 CFR 1500.48 Sharp points	Pass
16 CFR 1500.49 Sharp metal or glass edges	Pass

Note(s): 1. Tested part(s) was/were specified by client.  
2. NA=Not Applicable

Use and abuse testing	
Description	Test Condition
Normal Use Testing	/
Abuse Testing	/
Impact Tests	4 times at 3feet
Torque Tests	4 in·lbf or $\pm 180^\circ$
Tension Tests	15 lbf
Compression Tests	30 lbf
Bite Tests	100 lbf
Flexure Test	15 lbf

Note(s): 1. Test condition(s) was/were specified by client.



**2.1.3 Small Parts Test, Sharp Point Tests and Sharp Metal or Glass Edge (#39, #40)**

Age grading : The sample did not contain any age grade;  
Tested age grading was specified by client:"3+".

Age grading for testing : 36-96 months

Applicable requirements before and after use and abuse testing:

Description	Result
16 CFR 1501 Small parts	NA
16 CFR 1500.48 Sharp points	Pass
16 CFR 1500.49 Sharp metal or glass edges	Pass
Note(s): 1. Tested part(s) was/were specified by client. 2. NA=Not Applicable	

Use and abuse testing

Description	Test Condition
Normal Use Testing	/
Abuse Testing	/
Impact Tests	4 times at 3feet
Torque Tests	4 in·lbf or ±180°
Tension Tests	15 lbf
Compression Tests	30 lbf
Bite Tests	100 lbf
Flexure Test	15 lbf

Note(s): 1. Test condition(s) was/were specified by client.

**3. 16 CFR Part 1500.44**

**3.1 Flammability Test**

Ref.: 16 CFR Part 1500.44

Sample	Result
#1~#40	Pass

Note(s): 1. DNI=Did Not Ignite  
2. IBE=Ignite But Self-Extinguished before burn rate could be determined.  
3. In accordance with the FHSA, the burn rate should not be greater than 0.1 in. per second.



**4. Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195 & SOR/2016-302 & SOR/2018-138 under Canada Consumer Product Safety Act (CCPSA)**

Age grading : The sample(s) was age graded with the following marking:"3+";  
: Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up  
Applicable requirements before and after use and abuse testing:

**4.1.1 Physical and Mechanical Test (#1~#6, #8~#16, #18~#19, #21~#29)**

Ref.: Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195 & SOR/2016-302 & SOR/2018-138

Description	Result
MECHANICAL HAZARDS	---
9 Wire frames	Pass
10 Plastic edges	Pass
Note(s): 1. Tested part(s) was/were specified by client.	

Age grading : The sample(s) was age graded with the following marking:"8+";  
: Tested age grading was specified by client:"8+".  
Age grading for testing : 8 years and up  
Applicable requirements before and after use and abuse testing:

**4.1.2 Physical and Mechanical Test (#7)**

Ref.: Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195 & SOR/2016-302 & SOR/2018-138

Description	Result
MECHANICAL HAZARDS	---
9 Wire frames	Pass
10 Plastic edges	Pass
Note(s): 1. Tested part(s) was/were specified by client.	





Age grading : The sample(s) was age graded with the following marking:"6+";  
: Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up  
Applicable requirements before and after use and abuse testing:

#### **4.1.3 Physical and Mechanical Test (#17, #20)**

Ref.: Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195 & SOR/2016-302 & SOR/2018-138

Description	Result
MECHANICAL HAZARDS	---
9 Wire frames	Pass
10 Plastic edges	Pass
Note(s): 1. Tested part(s) was/were specified by client.	

Age grading : The sample(s) was age graded with the following marking:"3+";  
: Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up  
Applicable requirements before and after use and abuse testing:

#### **4.1.4 Physical and Mechanical Test (#30~#34, #36~#38)**

Ref.: Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195 & SOR/2016-302 & SOR/2018-138

Description	Result
MECHANICAL HAZARDS	---
8 Metal edges	Pass
9 Wire frames	Pass
10 Plastic edges	Pass
13 Fasteners	Pass
Note(s): 1. Tested part(s) was/were specified by client.	



Age grading : The sample(s) was age graded with the following marking:"8+";  
: Tested age grading was specified by client:"8+".  
Age grading for testing : 8 years and up  
Applicable requirements before and after use and abuse testing:

#### **4.1.5 Physical and Mechanical Test (#35)**

Ref.: Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195 & SOR/2016-302 & SOR/2018-138

Description	Result
MECHANICAL HAZARDS	---
8 Metal edges	Pass
9 Wire frames	Pass
10 Plastic edges	Pass
13 Fasteners	Pass

Note(s): 1. Tested part(s) was/were specified by client.

Age grading : The sample did not contain any age grade;  
: Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up  
Applicable requirements before and after use and abuse testing:

#### **4.1.6 Physical and Mechanical Test (#39, #40)**

Ref.: Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195 & SOR/2016-302 & SOR/2018-138

Description	Result
PACKAGING	---
4 Flexible film bags	Pass
MECHANICAL HAZARDS	---
9 Wire frames	Pass
10 Plastic edges	Pass

Note(s): 1. Tested part(s) was/were specified by client.



**4.2 Flammability Tests (#1~#40)**

Ref.: Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195

Description	Result
Section 21 Cellulose nitrate detection	Pass

**4.3 Toxic Element Analysis in Surface Coating Test**

Ref.: EPA 3050B-1996 & EPA 6010D-2014 & SOR C-03:2018

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	6	7	8	10	11	18	19	20	
Pb(Total)	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg(Total)	ND	ND	ND	ND	ND	ND	ND	ND	10
Cd(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Ba(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Sb(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
As(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Se(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	22	23	24	25	26	27	28	29	
Pb(Total)	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg(Total)	ND	ND	ND	ND	ND	ND	ND	ND	10
Cd(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Ba(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Sb(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
As(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Se(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)



Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	30	31	37	38	41	42	43	44	
Pb(Total)	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg(Total)	ND	ND	ND	ND	ND	ND	ND	ND	10
Cd(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Ba(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Sb(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
As(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Se(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	45	47	48	49	50	51	53	55	
Pb(Total)	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg(Total)	ND	ND	ND	ND	ND	ND	ND	ND	10
Cd(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Ba(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Sb(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
As(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Se(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	56	57	58	59	60	63	64	66	
Pb(Total)	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg(Total)	ND	ND	ND	ND	ND	ND	ND	ND	10
Cd(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Ba(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Sb(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
As(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Se(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)



Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	67	68	69	70	71	72	74	75	
Pb(Total)	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg(Total)	ND	ND	ND	ND	ND	ND	ND	ND	10
Cd(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Ba(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Sb(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
As(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Se(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	76	77	78	80	81	82	93	94	
Pb(Total)	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg(Total)	ND	ND	ND	ND	ND	ND	ND	ND	10
Cd(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Ba(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Sb(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
As(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)
Se(Soluble)	ND	ND	ND	ND	ND	ND	ND	ND	1000(0.1%)

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	95	96	/	/	/	/	/	/	
Pb(Total)	ND	ND	/	/	/	/	/	/	90
Hg(Total)	ND	ND	/	/	/	/	/	/	10
Cd(Soluble)	ND	ND	/	/	/	/	/	/	1000(0.1%)
Ba(Soluble)	ND	ND	/	/	/	/	/	/	1000(0.1%)
Sb(Soluble)	ND	ND	/	/	/	/	/	/	1000(0.1%)
As(Soluble)	ND	ND	/	/	/	/	/	/	1000(0.1%)
Se(Soluble)	ND	ND	/	/	/	/	/	/	1000(0.1%)

- Note(s):
1. ND = Not Detected
  2. Method detection limit: Total lead 10mg/kg, Total mercury 10mg/kg, Soluble 10mg/kg
  3. mg/kg = milligram(s) per kilogram = ppm = part(s) per million=0.0001%
  4. Tested part(s) was/were specified by client.



## 5. Australian/New Zealand Standard for Safety of Toys

Age grading : The sample(s) was age graded with the following marking:"3+";  
Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up

### 5.1.1 AS/NZS ISO 8124.1:2019, Mechanical and Physical Properties

(#1~#4, #6, #8~#16, #18~#19, #21~#23, #25, #29)

Ref.: AS/NZS ISO 8124.1:2019

Applicable requirements before and after use and abuse testing:

Description	Result
4.1 Normal use	Pass
4.2 Reasonably foreseeable abuse	Pass
4.3 Material	Pass
4.4 Small parts	Pass
4.6 Edges	Pass
4.7 Points	Pass
4.9 Metal wires and rods	Pass
Appendix A Age-grading guidelines	Pass
Appendix B.2.1 Good practice for visibility and legibility	Pass
Appendix B.2.2 Age grading	Pass
Appendix B.4 Manufacturer's markings	Pass
Note(s): 1. Tested part(s) was/were specified by client.	



Age grading : The sample(s) was age graded with the following marking:"3+";  
Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up

**5.1.2 AS/NZS ISO 8124.1:2019, Mechanical and Physical Properties (#5, #24, #26, #27, #28)**

Ref.: AS/NZS ISO 8124.1:2019

Applicable requirements before and after use and abuse testing:

Description	Result
4.1 Normal use	Pass
4.2 Reasonably foreseeable abuse	Pass
4.3 Material	Pass
4.4 Small parts	Pass
4.6 Edges	Pass
4.7 Points	Pass
4.9 Metal wires and rods	Pass
Appendix A Age-grading guidelines	Pass
Appendix B.2.1 Good practice for visibility and legibility	Pass
Appendix B.2.2 Age grading	Pass
Appendix B.2.3 Small toys and toys containing small parts	Pass
Appendix B.4 Manufacturer's markings	Pass
Note(s): 1. Tested part(s) was/were specified by client.	



Age grading : The sample(s) was age graded with the following marking:"6+";  
Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up

**5.1.3 AS/NZS ISO 8124.1:2019, Mechanical and Physical Properties (#17, #20)**

Ref.: AS/NZS ISO 8124.1:2019

Applicable requirements before and after use and abuse testing:

Description	Result
4.1 Normal use	Pass
4.2 Reasonably foreseeable abuse	Pass
4.3 Material	Pass
4.4 Small parts	Pass
4.6 Edges	Pass
4.7 Points	Pass
4.9 Metal wires and rods	Pass
Appendix A Age-grading guidelines	Pass
Appendix B.2.1 Good practice for visibility and legibility	Pass
Appendix B.2.2 Age grading	Pass
Appendix B.4 Manufacturer's markings	Pass
Note(s): 1. Tested part(s) was/were specified by client.	





Age grading : The sample(s) was age graded with the following marking:"8+";  
Tested age grading was specified by client:"8+".  
Age grading for testing : 8 years and up

**5.1.4 AS/NZS ISO 8124.1:2019, Mechanical and Physical Properties (#7, #35)**

Ref.: AS/NZS ISO 8124.1:2019

Applicable requirements before and after use and abuse testing:

Description	Result
4.1 Normal use	Pass
4.3 Material	Pass
Appendix B.2.2 Age grading	Pass
Appendix B.4 Manufacturer's markings	Pass
Note(s):	
1. Tested part(s) was/were specified by client.	
2. The customer did not provide the physical label. This test is based on the photo of label. According to the customer statement, the label on the physical sample will be the same as the photo.	

Age grading : The sample(s) was age graded with the following marking:"3+";  
Tested age grading was specified by client:"3+".  
Age grading for testing : 3 years and up

**5.1.5 AS/NZS ISO 8124.1:2019, Mechanical and Physical Properties (#30-#34, #36-#38)**

Ref.: AS/NZS ISO 8124.1:2019

Applicable requirements before and after use and abuse testing:

Description	Result
4.1 Normal use	Pass
4.2 Reasonably foreseeable abuse	Pass
4.3 Material	Pass
4.4 Small parts	Pass
4.6 Edges	Pass
4.7 Points	Pass
4.9 Metal wires and rods	Pass
4.13 Holes, clearances and accessibility of mechanisms	Pass
Appendix A Age-grading guidelines	Pass
Appendix B.2.1 Good practice for visibility and legibility	Pass
Appendix B.2.2 Age grading	Pass
Appendix B.4 Manufacturer's markings	Pass
Note(s):	
1. Tested part(s) was/were specified by client.	



Age grading : The sample did not contain any age grade;  
Tested age grading was specified by client: "3+".  
Age grading for testing : 3 years and up

**5.1.6 AS/NZS ISO 8124.1:2019, Mechanical and Physical Properties (#39, #40)**

Ref.: AS/NZS ISO 8124.1:2019

Applicable requirements before and after use and abuse testing:

Description	Result
4.1 Normal use	Pass
4.2 Reasonably foreseeable abuse	Pass
4.3 Material	Pass
4.4 Small parts	Pass
4.6 Edges	Pass
4.7 Points	Pass
4.9 Metal wires and rods	Pass
4.10 Plastic film or plastic bags in packaging and in toys	Pass
Appendix A Age-grading guidelines	Pass
Appendix B.2.1 Good practice for visibility and legibility	See note 2
Appendix B.2.2 Age grading	See note 1
Appendix B.4 Manufacturer's markings	See note 2
Note(s):	
1. All toys should be labeled to indicate the minimum age for intended use or have such labeling on any retail packaging.	
2. Not conduct as per client's request	
3. Tested part(s) was/were specified by client.	

**5.2 AS/NZS 8124.2:2016, Flammability (#1~#40)**

Ref.: AS/NZS 8124.2:2016

Description	Result
4.1 General	Pass



**5.3 AS/NZS ISO 8124.3:2012+A1:2016, Migration of Certain Elements**

Ref.: AS/NZS ISO 8124.3:2012+A1:2016

Test item(s)	Result(mg/kg)									Coatings and substrates (mg/kg)
	5	6	7	8	9	10	11	12		
Pb	ND	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)									Coatings and substrates (mg/kg)
	13	14	15	16	17	18	19	20		
Pb	ND	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)									Coatings and substrates (mg/kg)
	21	22	23	24	25	26	27	28		
Pb	ND	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	ND	500



Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	29	30	31	32	36	37	38	40	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	41	42	43	44	45	46	47	48	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	49	50	51	52	53	54	55	56	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500



Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	57	58	59	60	61	63	64	65	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	66	67	68	69	70	71	72	73	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	74	75	76	77	78	79	80	81	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500



Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	82	88	90	91	92	93	94	95	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Sb	ND	ND	ND	ND	ND	ND	ND	ND	60
As	ND	ND	ND	ND	ND	ND	ND	ND	25
Ba	ND	ND	ND	ND	ND	ND	ND	ND	1000
Cd	ND	ND	ND	ND	ND	ND	ND	ND	75
Cr	ND	ND	ND	ND	ND	ND	ND	ND	60
Hg	ND	ND	ND	ND	ND	ND	ND	ND	60
Se	ND	ND	ND	ND	ND	ND	ND	ND	500

Test item(s)	Result(mg/kg)								Coatings and substrates (mg/kg)
	96	/	/	/	/	/	/	/	
Pb	ND	/	/	/	/	/	/	/	90
Sb	ND	/	/	/	/	/	/	/	60
As	ND	/	/	/	/	/	/	/	25
Ba	ND	/	/	/	/	/	/	/	1000
Cd	ND	/	/	/	/	/	/	/	75
Cr	ND	/	/	/	/	/	/	/	60
Hg	ND	/	/	/	/	/	/	/	60
Se	ND	/	/	/	/	/	/	/	500

- Note(s):
1. According to the Standard, if the quantities of the elements were between 10 and 100 mg, calculated as 100 mg of test portion.
  2. According to the Standard, if the quantities of the elements were less than 10 mg, it is not necessary to conduct the test.
  3. ND = Not Detected
  4. Method detection limit: 5mg/kg(Pb, Sb, Ba, Cd, Se),2.5mg/kg(As, Cr, Hg)
  5. mg/kg = milligram(s) per kilogram = ppm = part(s) per million
  6. Tested part(s) was/were specified by client.



**6. US Consumer Product Safety Improvement Act**

**6.1 Total Lead Content Test**

Ref.: EPA 3050B-1996 & EPA 6010D-2014

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	5+	6+	10+	13+	16+	19+	23+	26+	
	9+	7+	11+	14+	17+	20+	24+	27+	
	12	8	18	15	21	22	25	28	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	Coatings:90 Substrate materials:100

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	29+	32+	37+	42+	44+	46+	48+	51+	
	30+	36+	38+	43	45+	52+	49+	53+	
	31	40	41	43	47	61	50	55	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	Coatings:90 Substrate materials:100

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	54+	56+	59+	63+	66+	69+	72+	73+	
	65	57+	60+	95+	67+	70+	74+	79	
		58	64	96	68	71	75		
Pb	ND	ND	ND	ND	ND	ND	ND	ND	Coatings:90 Substrate materials:100

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	76+	80+	83+	86+	90+	93+	/	/	
	77+	81+	84+	87+	91+	94			
	78	82	85	89	92				
Pb	ND	ND	ND	ND	ND	ND	/	/	Coatings:90 Substrate materials:100

- Note(s):
1. According to Children's Products Containing Lead; Exemptions for Certain Electronic Devices; Final Rule, 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.
  2. ND = Not Detected
  3. Method detection limit:10mg/kg
  4. mg/kg = milligram(s) per kilogram = ppm = part(s) per million
  5. Tested part(s) was/were specified by client.
  6. According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.



### 6.2 Phthalates Content Test

Ref.: CPSC-CH-C1001-09.4

Test item(s)	Result(%)								Requirement (%)
	2+4	5+9+ 12	6+7+ 8	10+ 11+ 18	13+ 14+ 15	16+ 17+ 21	19+ 20+ 22	23+ 24+ 25	
DEHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DPENP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DCHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DHEXP	ND	ND	ND	ND	ND	ND	ND	ND	0.1

Test item(s)	Result(%)								Requirement (%)
	26+	29+	32+	37+	42+	45+	46+	49+	
	27+	30+	36+	38+	43+	47+	52+	50+	
	28	31	40	41	44	48	54	51	
DEHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DPENP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DCHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DHEXP	ND	ND	ND	ND	ND	ND	ND	ND	0.1





Test item(s)	Result(%)								Requirement (%)	
	53+	57+	60+	61+	62+	66+	69+	72+		
	55+	58+	63+	65	97	67+	70+	74+		
DEHP	56	59	64	65	97	68	71	75	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIBP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DPENP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DCHP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DHEXP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1

Test item(s)	Result(%)								Requirement (%)	
	73+	76+	80+	93+	95+	/	/	/		
	79	77+	81+	94	96	/	/	/		
DEHP	ND	78	82	ND	ND	/	/	/	ND	0.1
DBP	ND	ND	ND	ND	ND	/	/	/	ND	0.1
BBP	ND	ND	ND	ND	ND	/	/	/	ND	0.1
DINP	ND	ND	ND	ND	ND	/	/	/	ND	0.1
DIBP	ND	ND	ND	ND	ND	/	/	/	ND	0.1
DPENP	ND	ND	ND	ND	ND	/	/	/	ND	0.1
DCHP	ND	ND	ND	ND	ND	/	/	/	ND	0.1
DHEXP	ND	ND	ND	ND	ND	/	/	/	ND	0.1

- Note(s):
1. ND = Not Detected
  2. Method detection limit:100mg/kg
  3. mg/kg = milligram(s) per kilogram = ppm = part(s) per million=0.0001%
  4. Tested part(s) was/were specified by client.
  5. According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.



**6.3.1 Tracking Labels (#1~#6, #8~#11, #13~#28, #30, #36,#37)**

Ref.: CPSIA Sec 103(a)

Description	Result
1 Scope	Pass
2 Present on packaging and product	Pass
3 Permanent	Pass
4 The manufacturer or private labeler	Pass
5 Location of production	Pass
6 Date of production	Pass
7 Cohort information	Pass

**6.3.2 Tracking Labels (#7,#12, #29, #31~#34, #35,#38, #39, #40)**

Ref.: CPSIA Sec 103(a)

Description	Result
1 Scope	Pass
2 Present on packaging and product	Pass
3 Permanent	Pass
4 The manufacturer or private labeler	Pass
5 Location of production	Pass
6 Date of production	Pass
7 Cohort information	Pass

Note(s): 1. The customer did not provide the physical label. This test is based on the photo of label. According to the customer statement, the label on the physical sample will be the same as the photo.

**7. California Proposition 65**

**7.1 Total Lead Content Test**

Ref.: EPA 3050B-1996 & EPA 6010D-2014

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	5+	6+	10+	13+	16+	19+	23+	26+	
	9+	7+	11+	14+	17+	20+	24+	27+	
	12	8	18	15	21	22	25	28	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	Coatings:90 Substrate materials:100 PVC:30



Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	29+	32+	37+	42+	44+	46+	48+	51+	
	30+	36+	38+	43	45+	52+	49+	53+	
	31	40	41	43	47	61	50	55	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	Coatings:90 Substrate materials:100 PVC:30

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	54+	56+	59+	63+	66+	69+	72+	73+	
	65	57+	60+	95+	67+	70+	74+	79	
	58	64	96	68	71	75			
Pb	ND	ND	ND	ND	ND	ND	ND	ND	Coatings:90 Substrate materials:100 PVC:30

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	76+	80+	83+	86+	90+	93+			
	77+	81+	84+	87+	91+	94	/	/	
	78	82	85	89	92				
Pb	ND	ND	ND	ND	ND	ND	/	/	Coatings:90 Substrate materials:100 PVC:30

- Note(s):
1. ND = Not Detected
  2. Method detection limit:10mg/kg
  3. mg/kg = milligram(s) per kilogram = ppm = part(s) per million
  4. Tested part(s) was/were specified by client.
  5. According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.



**7.2 Total Cadmium Content Test**

Ref.: EPA 3050B-1996 & EPA 6010D-2014

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	5+	6+	10+	13+	16+	19+	23+	26+	
	9+	7+	11+	14+	17+	20+	24+	27+	
	12	8	18	15	21	22	25	28	
Cd	ND	ND	ND	ND	ND	ND	ND	ND	300

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	29+	32+	37+	42+	44+	46+	48+	51+	
	30+	36+	38+	43	45+	52+	49+	53+	
	31	40	41	47	61	50	55		
Cd	ND	ND	ND	ND	ND	ND	ND	ND	300

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	54+	56+	59+	63+	66+	69+	72+	73+	
	65	57+	60+	95+	67+	70+	74+	79	
	58	64	96	68	71	75			
Cd	ND	ND	ND	ND	ND	ND	ND	ND	300

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	76+	80+	83+	86+	90+	93+	/	/	
	77+	81+	84+	87+	91+	94	/	/	
	78	82	85	89	92				
Cd	ND	ND	ND	ND	ND	ND	/	/	300

- Note(s):
1. ND = Not Detected
  2. Method detection limit:10mg/kg
  3. mg/kg = milligram(s) per kilogram = ppm = part(s) per million
  4. Tested part(s) was/were specified by client.
  5. According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.



### 7.3 Phthalates Content Test

Ref.: CPSC-CH-C1001-09.4

Test item(s)	Result(%)								Requirement (%)
	2+4	5+9+ 12	6+7+ 8	10+ 11+ 18	13+ 14+ 15	16+ 17+ 21	19+ 20+ 22	23+ 24+ 25	
DEHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DnHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIDP	ND	ND	ND	ND	ND	ND	ND	ND	0.1

Test item(s)	Result(%)								Requirement (%)
	26+	29+	32+	37+	42+	45+	46+	49+	
	27+	30+	36+	38+	43+	47+	52+	50+	
	28	31	40	41	44	48	54	51	
DEHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DnHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIDP	ND	ND	ND	ND	ND	ND	ND	ND	0.1

Test item(s)	Result(%)								Requirement (%)
	53+	57+	60+	61+	62+	66+	69+	72+	
	55+	58+	63+	65	97	67+	70+	74+	
	56	59	64			68	71	75	
DEHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DnHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIDP	ND	ND	ND	ND	ND	ND	ND	ND	0.1



Test item(s)	Result(%)								Requirement (%)
	73+ 79	76+ 77+ 78	80+ 81+ 82	93+ 94	95+ 96	/	/	/	
DEHP	ND	ND	ND	ND	ND	/	/	/	0.1
DBP	ND	ND	ND	ND	ND	/	/	/	0.1
BBP	ND	ND	ND	ND	ND	/	/	/	0.1
DnHP	ND	ND	ND	ND	ND	/	/	/	0.1
DINP	ND	ND	ND	ND	ND	/	/	/	0.1
DIDP	ND	ND	ND	ND	ND	/	/	/	0.1

- Note(s):
1. ND = Not Detected
  2. Method detection limit:100mg/kg
  3. mg/kg = milligram(s) per kilogram = ppm = part(s) per million=0.0001%
  4. Tested part(s) was/were specified by client.
  5. According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

## 8. Illinois Public Act 097-0612(SB 1943)

### 8.1 Total Lead Content Test

Ref.: EPA 3050B-1996 & EPA 6010D-2014

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	5+	6+	10+	13+	16+	19+	23+	26+	
	9+	7+	11+	14+	17+	20+	24+	27+	
	12	8	18	15	21	22	25	28	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	See the form below

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	29+	32+	37+	42+	44+	46+	48+	51+	
	30+	36+	38+	43	45+	52+	49+	53+	
	31	40	41	47	61	50	55		
Pb	ND	ND	ND	ND	ND	ND	ND	ND	See the form below



Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	54+ 65	56+ 57+ 58	59+ 60+ 64	63+ 95+ 96	66+ 67+ 68	69+ 70+ 71	72+ 74+ 75	73+ 79	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	See the form below

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	76+ 77+ 78	80+ 81+ 82	83+ 84+ 85	86+ 87+ 89	90+ 91+ 92	93+ 94	/	/	
Pb	ND	ND	ND	ND	ND	ND	/	/	See the form below

Type I: Paints and surface coatings	40mg/kg, 40-90mg/kg need warning label
Type II: Substrate materials	40mg/kg, 40-100mg/kg need warning label

- Note(s):
1. Product(s) with total lead content in surface coating exceeding this maximum allowable limit but less than 90 mg/kg has (have) to comply with the warning utilization requirement.
  2. Product(s) with total lead content in substrate exceeding this maximum allowable limit but less than 100 mg/kg has (have) to comply with the warning utilization requirement.
  3. ND = Not Detected
  4. Method detection limit:10mg/kg
  5. mg/kg = milligram(s) per kilogram = ppm = part(s) per million
  6. Tested part(s) was/were specified by client.
  7. According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

## 9. Washington Children's Safe Products Act

### 9.1 Total Cadmium Content Test

Ref.: EPA 3050B-1996 & EPA 6010D-2014

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	5+ 9+ 12	6+ 7+ 8	10+ 11+ 18	13+ 14+ 15	16+ 17+ 21	19+ 20+ 22	23+ 24+ 25	26+ 27+ 28	
Cd	ND	ND	ND	ND	ND	ND	ND	ND	40



Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	29+	32+	37+	42+	44+	46+	48+	51+	
	30+	36+	38+	43	45+	52+	49+	53+	
	31	40	41	47	61	50	55		
Cd	ND	ND	ND	ND	ND	ND	ND	ND	40

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	54+	56+	59+	63+	66+	69+	72+	73+	
	65	57+	60+	95+	67+	70+	74+	79	
	58	64	96	68	71	75			
Cd	ND	ND	ND	ND	ND	ND	ND	ND	40

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	76+	80+	83+	86+	90+	93+	/	/	
	77+	81+	84+	87+	91+	94			
	78	82	85	89	92				
Cd	ND	ND	ND	ND	ND	ND	/	/	40

- Note(s):
1. ND = Not Detected
  2. Method detection limit:10mg/kg
  3. mg/kg = milligram(s) per kilogram = ppm = part(s) per million
  4. Tested part(s) was/were specified by client.
  5. According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

## **10. California Assembly Bill No.1108**

### **10.1 Phthalates Content Test**

Ref.: CPSC-CH-C1001-09.4

Test item(s)	Result(%)								Requirement (%)
	2+4	5+9+	6+7+	10+	13+	16+	19+	23+	
		12	8	11+	14+	17+	20+	24+	
				18	15	21	22	25	
DEHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DNOP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIDP	ND	ND	ND	ND	ND	ND	ND	ND	0.1





Test item(s)	Result(%)								Requirement (%)
	26+	29+	32+	37+	42+	45+	46+	49+	
	27+	30+	36+	38+	43+	47+	52+	50+	
	28	31	40	41	44	48	54	51	
DEHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DNOP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIDP	ND	ND	ND	ND	ND	ND	ND	ND	0.1

Test item(s)	Result(%)								Requirement (%)
	53+	57+	60+	61+	62+	66+	69+	72+	
	55+	58+	63+	65	97	67+	70+	74+	
	56	59	64			68	71	75	
DEHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DNOP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIDP	ND	ND	ND	ND	ND	ND	ND	ND	0.1

Test item(s)	Result(%)								Requirement (%)
	73+	76+	80+	93+	95+	/	/	/	
	79	77+	81+	94	96				
		78	82						
DEHP	ND	ND	ND	ND	ND	/	/	/	0.1
DBP	ND	ND	ND	ND	ND	/	/	/	0.1
BBP	ND	ND	ND	ND	ND	/	/	/	0.1
DNOP	ND	ND	ND	ND	ND	/	/	/	0.1
DINP	ND	ND	ND	ND	ND	/	/	/	0.1
DIDP	ND	ND	ND	ND	ND	/	/	/	0.1

- Note(s):
1. ND = Not Detected
  2. Method detection limit: 100mg/kg
  3. mg/kg = milligram(s) per kilogram = ppm = part(s) per million=0.0001%
  4. Tested part(s) was/were specified by client.
  5. According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.



**11. San Francisco Health Code**

**11.1 Phthalates Content Test**

Ref.: CPSC-CH-C1001-09.4

Test item(s)	Result(%)								Requirement (%)
	2+4	5+9+ 12	6+7+ 8	10+ 11+ 18	13+ 14+ 15	16+ 17+ 21	19+ 20+ 22	23+ 24+ 25	
DEHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DNOP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIDP	ND	ND	ND	ND	ND	ND	ND	ND	0.1

Test item(s)	Result(%)								Requirement (%)
	26+ 27+ 28	29+ 30+ 31	32+ 36+ 40	37+ 38+ 41	42+ 43+ 44	45+ 47+ 48	46+ 52+ 54	49+ 50+ 51	
DEHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DNOP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIDP	ND	ND	ND	ND	ND	ND	ND	ND	0.1

Test item(s)	Result(%)								Requirement (%)
	53+ 55+ 56	57+ 58+ 59	60+ 63+ 64	61+ 65	62+ 97	66+ 67+ 68	69+ 70+ 71	72+ 74+ 75	
DEHP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
BBP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DNOP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DINP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
DIDP	ND	ND	ND	ND	ND	ND	ND	ND	0.1



Test item(s)	Result(%)								Requirement (%)
	73+ 79	76+ 77+ 78	80+ 81+ 82	93+ 94	95+ 96	/	/	/	
DEHP	ND	ND	ND	ND	ND	/	/	/	0.1
DBP	ND	ND	ND	ND	ND	/	/	/	0.1
BBP	ND	ND	ND	ND	ND	/	/	/	0.1
DNOP	ND	ND	ND	ND	ND	/	/	/	0.1
DINP	ND	ND	ND	ND	ND	/	/	/	0.1
DIDP	ND	ND	ND	ND	ND	/	/	/	0.1

- Note(s):
1. ND = Not Detected
  2. Method detection limit: 100mg/kg
  3. mg/kg = milligram(s) per kilogram = ppm = part(s) per million=0.0001%
  4. Tested part(s) was/were specified by client.
  5. According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

## **12. The Toxics in Packaging Clearinghouse (TPCH)**

### **12.1 Heavy Metals Test**

Ref.: EPA 3050B-1996 & EPA 3060A-1996 & EPA 6010D-2014

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	1	2	3	4	39	62	97	/	
Pb	ND	ND	ND	ND	ND	ND	ND	/	The sum of these four elements does not exceed 100
Cd	ND	ND	ND	ND	ND	ND	ND	/	
Cr 6+	ND	ND	ND	ND	ND	ND	ND	/	
Hg	ND	ND	ND	ND	ND	ND	ND	/	

- Note(s):
1. If the total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for Chromium (VI).
  2. ND = Not Detected
  3. Method detection limit:10mg/kg
  4. mg/kg = milligram(s) per kilogram = ppm = part(s) per million
  5. Tested part(s) was/were specified by client.



**13. Consumer Products Containing Lead (Contact with Mouth) Regulations SOR/2018-83 under Canada Consumer Product Safety Act (CCPSA)**

**13.1 Total Lead Content Test**

Ref.: EPA 3050B-1996 & EPA 6010D-2014

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	5+	6+	10+	13+	16+	19+	23+	26+	
	9+	7+	11+	14+	17+	20+	24+	27+	
	12	8	18	15	21	22	25	28	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	29+	32+	37+	42+	44+	46+	48+	51+	
	30+	36+	38+	43	45+	52+	49+	53+	
	31	40	41	47	61	50	55		
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	54+	56+	59+	63+	66+	69+	72+	73+	
	65	57+	60+	95+	67+	70+	74+	79	
	58	64	96	68	71	75			
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	76+	80+	83+	86+	90+	93+			
	77+	81+	84+	87+	91+	94	/	/	
	78	82	85	89	92				
Pb	ND	ND	ND	ND	ND	ND	/	/	90

- Note(s):
1. ND = Not Detected
  2. Method detection limit: 10mg/kg
  3. mg/kg = milligram(s) per kilogram = ppm = part(s) per million
  4. Tested part(s) was/were specified by client.
  5. According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.



**14. Surface Coating Materials Regulations SOR/2016-193 under Canada Consumer Product Safety Act (CCPSA)**

**14.1 Toxic Element Analysis**

Ref.: EPA 3050B-1996 & EPA 6010D-2014

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	6	7	8	10	11	18	19	20	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg	ND	ND	ND	ND	ND	ND	ND	ND	10

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	22	23	24	25	26	27	28	29	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg	ND	ND	ND	ND	ND	ND	ND	ND	10

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	30	31	37	38	41	42	43	44	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg	ND	ND	ND	ND	ND	ND	ND	ND	10

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	45	47	48	49	50	51	53	55	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg	ND	ND	ND	ND	ND	ND	ND	ND	10

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	56	57	58	59	60	63	64	66	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg	ND	ND	ND	ND	ND	ND	ND	ND	10

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	67	68	69	70	71	72	74	75	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg	ND	ND	ND	ND	ND	ND	ND	ND	10



Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	76	77	78	80	81	82	93	94	
Pb	ND	ND	ND	ND	ND	ND	ND	ND	90
Hg	ND	ND	ND	ND	ND	ND	ND	ND	10

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	95	96	/	/	/	/	/	/	
Pb	ND	ND	/	/	/	/	/	/	90
Hg	ND	ND	/	/	/	/	/	/	10

- Note(s):
1. ND = Not Detected
  2. Method detection limit: Total lead 10mg/kg, Total mercury 10mg/kg
  3. mg/kg = milligram(s) per kilogram = ppm = part(s) per million
  4. Tested part(s) was/were specified by client.

## **15. Products Containing Mercury Regulations SOR/2014-254 under Canadian Environmental Protection Act**

### **15.1 Total Mercury Content Test**

Ref.: EPA 3050B-1996 & EPA 6010D-2014

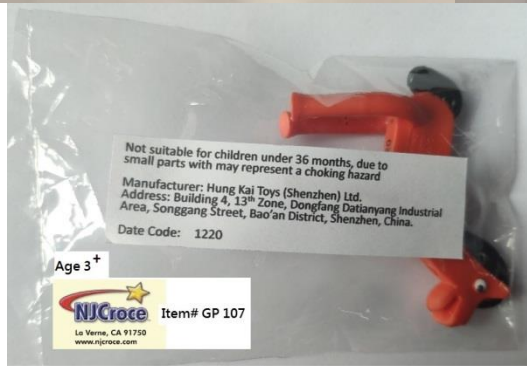
Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	5+	13+	16+	32+	33+	46+	61+	73+	
	9+	14+	17+	36+	34+	52+	65	79	
	12	15	21	40	35	54			
Hg	ND	ND	ND	ND	ND	ND	ND	ND	Consumer products other than button cell battery: 1000mg/kg

Test item(s)	Result(mg/kg)								Requirement (mg/kg)
	83+	86+	90+						
	84+	87+	91+	/	/	/	/	/	
	85	89	92						
Hg	ND	ND	ND	/	/	/	/	/	Consumer products other than button cell battery: 1000mg/kg

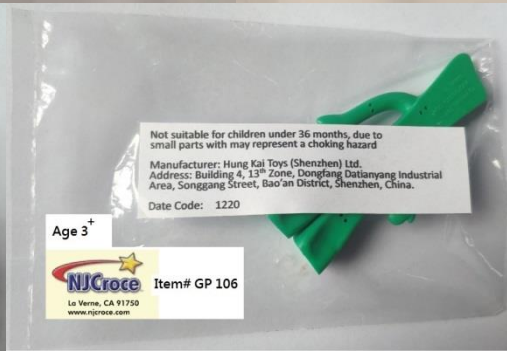
- Note(s):
1. ND = Not Detected
  2. Method detection limit: 10mg/kg
  3. mg/kg = milligram(s) per kilogram = ppm = part(s) per million
  4. Tested part(s) was/were specified by client.
  5. According to client's request, tests are composite tests, the experimental results are the total result of mixed samples.



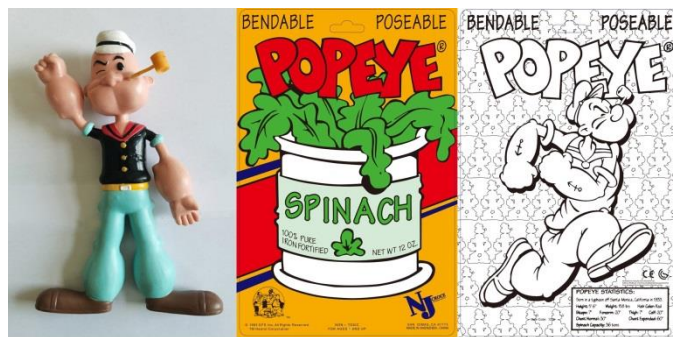
Photograph of Sample



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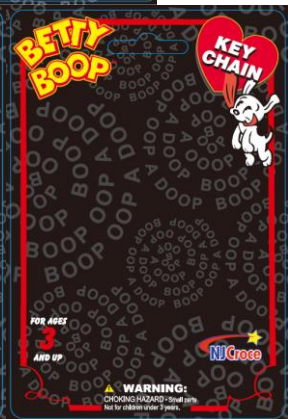
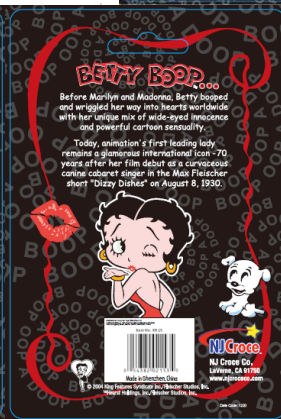
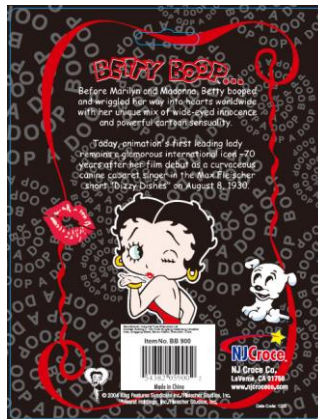
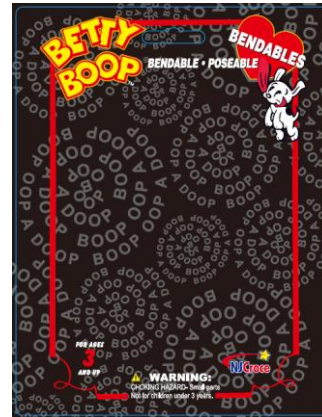
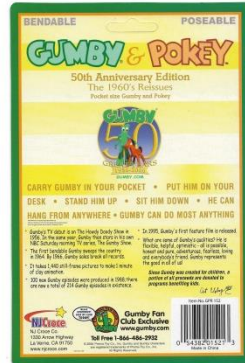
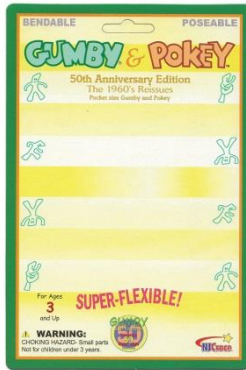
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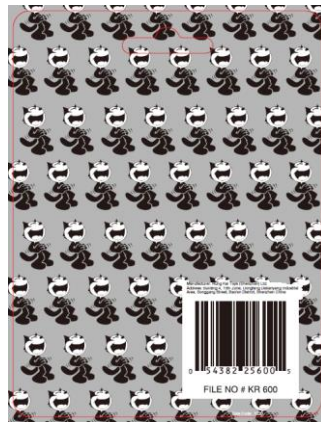
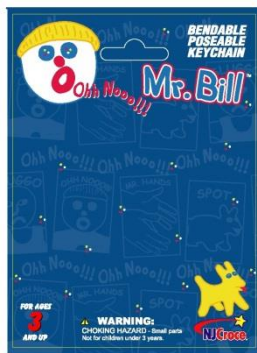
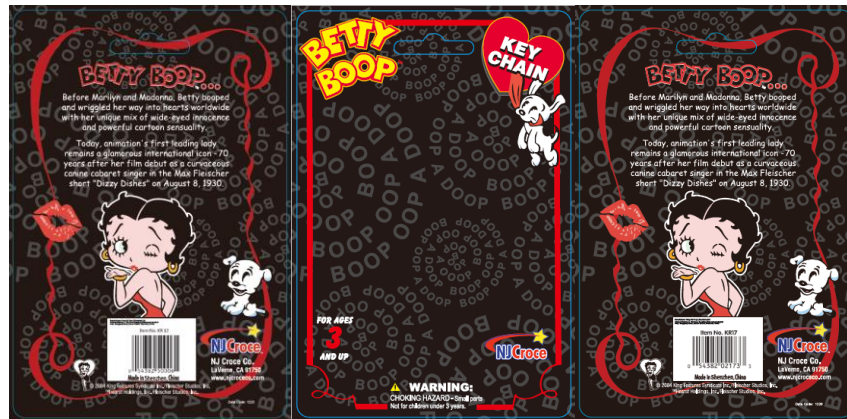
7



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\*\*\*\*\* END OF TEST REPORT \*\*\*\*\*