TEST REPORT

APPLICANT : OOPS SA

ADDRESS : Via Magazzini Generali n.10 6828 BALERNA Switzerland

SAMPLE DESCRIPTION : Happy Melody!

ITEM NO. : A: 12002.14 (Peacock)
B: 12002.24 (Hedgehog)
C: 12002.12
D: 12002.13 (Snail)
E: 12002.22 (Dog)
F: 12002.23 (Turtle)

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : Worldwild

AGE REQUESTED ON APPLICATION FORM : 0M+

SAMPLE RECEIVED DATE : 22-Sep-2015

FURTHER INFORMATION DATE : 28-Oct-2015

TURN AROUND TIME : 28-Oct-2015 to 03-Nov-2015, 6 Working Days

The following test item(s) was/were performed on selected sample(s) and/or component(s) appointed by applicant.

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Heavy Metal	ASTM F963-11	Pass
Migration of Certain Elements	EN71 Part 3:2013+A1:2014	Pass
Phthalates Content	REACH Annex XVII, Entry 51 & 52	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)	Pass
Banned AZO Dyes	REACH Annex XVII, Entry 43	Pass
Colourants and Primary Aromatic Amines (First-Action Test, Colourfastness to Perspiration)	EN71 Part 9:2005 + A1:2007, ISO 105-E04:2013	Pass
Formaldehyde Content	EN71 Part 9:2005 + A1:2007	Pass
Flame Retardant Content	EN71 Part 9:2005 + A1:2007	Pass
Monomers Content	EN71 Part 9:2005 + A1:2007	Pass
Solvents (Migration) Content	EN71 Part 9:2005 + A1:2007	Pass
Plasticisers Content	EN71 Part 9:2005 + A1:2007	Pass

Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to sh.info@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd.

Note :

1. As per client's request, the test results of component No. 9, 11, 13, 16, 27, 28, 40, 44, 47, 55, 63, 65, 75, 77&78 are quoted from test report EFHZ15080053-CG.
2. As per client's request, the test results of component No. 10, 26, 45, 53&74 are quoted from test report EFHZ15070703-CG.
3. As per client's request, the test results of component No. 15, 29, 66&79 are quoted from test report EFHZ15080024-CG.
4. As per client's request, the test results of component No. 14&42 are quoted from test report EFHZ15070709-CG.
5. As per client's request, the test results of component No. 17, 32, 39, 58, 67&82 for heavy metal & migration of certain elements are quoted from test report EFHZ15080053-CG.

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

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd

Terric Ji
Lab Manager

SAMPLE PHOTO(S)

A: 12002.14

B: 12002.24

C: 12002.12

D: 12002.13

E: 12002.22

F: 12002.23

EFSH15090816-CG-03

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Related Sample(s)
1	Purple plush fabric (body)	A
2	Orange plush fabric (mouth, tail)	A
3	Yellow plush fabric (neck)	A
4	Rose plush fabric (neck)	A
5	Light blue plush fabric (wing)	A
6	Blue brush fabric (wing)	A
7	Multicolor stripe fabric (leg)	A
8	Navy plush fabric (foot)	A
9	White embroidery thread (eyes)	A
10	Pink embroidery thread (eyes, neck)	A
11	Black embroidery thread (eyes)	A
12	Purple embroidery thread (nose, neck)	A
13	Light blue embroidery thread (neck)	A
14	Yellow embroidery thread (neck)	A
15	Rose embroidery thread (neck, foot)	A
16	Kelly embroidery thread (thread label)	A
17	White sewn-in label with multicolor printing	A
18	Milk white plastic ring	A
19	Khaki plush fabric	B
20	Black plush fabric	B
21	Green plush fabric	B
22	Light orange plush fabric with white dot	B
23	Blue-green plush fabric	B
24	Green thread	B
25	Orange thread	B
26	Pink thread	B
27	White thread	B
28	Black thread	B
29	Pink thread	B
30	Blue-green thread	B
31	Milk-white plastic ring	B
32	White sewn-in label with multicolor printing	B
33	Blue plush fabric (ear)	C
34	Pink plush fabric (body)	C
35	Dark purple plush fabric (hand)	C
36	Orange plush fabric (stomach)	C
37	Yellow plush fabric with white dots (stomach)	C
38	Aqua plush fabric (foot)	C
39	White sewn-in label with multi-color printing	C
40	Blue embroidery thread	C
41	Brown embroidery thread	C
42	Yellow embroidery thread	C
43	Orange embroidery thread	C
44	White embroidery thread	C
45	Pink embroidery thread (letter O)	C
46	Aqua embroidery thread	C
47	Kelly embroidery thread	C
48	Milk-white plastic ring	C

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Related Sample(s)
49	Khaki plush fabric	D
50	Blue plush fabric with white dot	D
51	Dark purple fabric	D
52	Green thread	D
53	Pink thread	D
54	Golden thread	D
55	White thread	D
56	Blue-green thread	D
57	Milk-white plastic ring	D
58	White sewn-in label with multicolor printing	D
59	Orange plush fabric (face, arm, leg)	E
60	Beige plush fabric (back)	E
61	Black plush fabric (nose)	E
62	Blue plush fabric with white dot (body)	E
63	White embroidery thread (eyes, nose)	E
64	Green embroidery thread (eyes)	E
65	Kelly embroidery thread (sole of the foot)	E
66	Rose embroidery thread (sole of the foot)	E
67	White sewn-in label with multicolor printing	E
68	Milk-white plastic ring	E
69	Blue-green plush fabric	F
70	Blue plush fabric	F
71	Dark green plush fabric with white dot	F
72	Green plush fabric on body	F
73	Golden thread	F
74	Pink thread	F
75	Light blue thread	F
76	Green thread	F
77	White thread	F
78	Black thread	F
79	Rose thread	F
80	Blue-green thread	F
81	Milk-white plastic ring	F
82	White sewn-in label with multicolor printing	F

TO BE CONTINUED

TEST RESULT

Heavy Metal

1) ASTM F963-11- Heavy Elements – Total Lead in Substrate Material (Clause 4.3.5.2(2)(a))
Test Method: ASTM International Standard ASTM F963-11, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result					
				17	18	31	32	39	48
Total Lead	mg/kg	100	10	28	ND	ND	28	28	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				57	58	67	68	81	82
Total Lead	mg/kg	100	10	ND	28	28	ND	ND	28

2) ASTM F963-11- Heavy Elements – Total Elements Content, Initial Screening for Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))
Test Method: ASTM International Standard ASTM F963-11, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result					
				1	2	3	4	5	6
Total Antimony	mg/kg	60	5	ND	ND	ND	**310***	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	20	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				7	8	9	10	11	12
Total Antimony	mg/kg	60	5	ND	ND	**165***	**204***	**109***	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	30	33	22	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	27	24	13	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				13	14	15	16	17	18
Total Antimony	mg/kg	60	5	**102***	**110***	**106***	**114***	**192***	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	26	18	25	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	16	13	ND	19	28	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

2) ASTM F963-11- Heavy Elements – Total Elements Content, Initial Screening for Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-11, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result					
				19	20	21	22	23	24
Total Antimony	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				25	26	27	28	29	30
Total Antimony	mg/kg	60	5	ND	**204***	**165***	**109***	**106***	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	33	30	22	25	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	24	27	13	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				31	32	33	34	35	36
Total Antimony	mg/kg	60	5	ND	**192***	ND	ND	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	28	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				37	38	39	40	41	42
Total Antimony	mg/kg	60	5	ND	ND	**192***	**102***	ND	**110***
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	846	ND	ND	26	ND	18
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	28	16	ND	13
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				43	44	45	46	47	48
Total Antimony	mg/kg	60	5	ND	**165***	**204***	ND	**114***	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	30	33	**3140***	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	27	24	ND	19	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

2) ASTM F963-11- Heavy Elements – Total Elements Content, Initial Screening for Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-11, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result					
				49	50	51	52	53	54
Total Antimony	mg/kg	60	5	ND	ND	ND	ND	**204***	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	33	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	24	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				55	56	57	58	59	60
Total Antimony	mg/kg	60	5	**165***	ND	ND	**192***	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	30	ND	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	27	ND	ND	28	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				61	62	63	64	65	66
Total Antimony	mg/kg	60	5	ND	ND	**165***	ND	**114***	**106***
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	30	ND	ND	25
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	27	ND	19	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				67	68	69	70	71	72
Total Antimony	mg/kg	60	5	**192***	ND	ND	ND	ND	23
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	28	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				73	74	75	76	77
Total Antimony	mg/kg	60	5	ND	**204***	**102***	ND	**165***
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	33	26	ND	30
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	24	16	ND	27
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

2) ASTM F963-11- Heavy Elements – Total Elements Content, Initial Screening for Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-11, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result				
				78	79	80	81	82
Total Antimony	mg/kg	60	5	**109***	**106***	ND	ND	**192***
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	22	25	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	13	ND	ND	ND	28
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

3) ASTM F963-11- Heavy Elements – Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-11, Section 8.3.2 to 8.3.5 (excluding 8.3.5.5(3))

Tested Item(s)	Unit	Limit	MDL	Result					
				4	9	10	11	13	14
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	2.5	ND	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	5	ND	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				15	16	17	26	27	28
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	2.5	ND	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	5	ND	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result					
				29	32	39	40	42	44
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	2.5	ND	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	5	ND	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

3) ASTM F963-11- Heavy Elements – Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-11, Section 8.3.2 to 8.3.5 (excluding 8.3.5.5(3))

Tested Item(s)	Unit	Limit	MDL	Result					
				45	46	47	53	55	58
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	2.5	ND	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	5	ND	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				63	65	66	67	74
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	2.5	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	5	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				75	77	78	79	82
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	2.5	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	5	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Remark:
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

* On the initial analysis for soluble heavy metals content, any tested component of greater than the set limit, the result is inconclusive for the requirement and therefore were retested with soluble heavy metals analysis of ASTM F963-11, Sections 8.3.2 to 8.3.5 as specified in Section 8.3.1.3. The result herein is for reference only (show data), please refer to soluble heavy metals content analysis for the corresponding conclusive results.

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
For Category III, Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.
For Category I & II Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, determination of the content of total Chromium analysis was performed by ICP-MS; Extractable Chromium(III) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	**Unit**	**Result**					
		1	**2**	**3**	**4**	**5**	**6**
Category Type		III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	165	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Organic Tin[#1]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium[#2]	mg/kg	ND	ND	ND	-	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	ND	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	ND	-	-

Remarks:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL

Note:
[#1] - The migration of organic tin is expressed as tributyltin.
[#2] - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
For Category III, Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.
For Category I & II Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, determination of the content of total Chromium analysis was performed by ICP-MS; Extractable Chromium(III) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	**Unit**	**Result**					
		7	**8**	**9**	**10**	**11**	**13**
Category Type		III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Organic Tin[#1]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium[#2]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-	-

Remarks:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL
The test results of component No. 12 was not applicable due to the sample weight of test portion is less than 10 mg.

Note:
[#1] - The migration of organic tin is expressed as tributyltin.
[#2] - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
For Category III, Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.
For Category I & II Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, determination of the content of total Chromium analysis was performed by ICP-MS; Extractable Chromium(III) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	**Unit**	**Result**					
		14	**15**	**16**	**17**	**18**	**19**
Category Type		III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Organic Tin[#1]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium[#2]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-	-

Remarks:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL

Note:
[#1] - The migration of organic tin is expressed as tributyltin.
[#2] - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
For Category III, Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.
For Category I & II Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, determination of the content of total Chromium analysis was performed by ICP-MS; Extractable Chromium(III) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	**Unit**	**Result**					
		20	**21**	**22**	**23**	**26**	**27**
Category Type		III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Organic Tin[#1]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium[#2]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-	-

Remarks:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL
The test results of component No. 24&25 were not applicable due to the sample weight of test portion is less than 10 mg.

Note:
[#1] - The migration of organic tin is expressed as tributyltin.
[#2] - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
For Category III, Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.
For Category I & II Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, determination of the content of total Chromium analysis was performed by ICP-MS; Extractable Chromium(III) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	**Unit**	**Result**				
		28	**31**	**32**	**33**	**34**
Category Type		III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND
Extractable Organic Tin[#1]	mg/kg	ND	ND	ND	ND	ND
Extractable Chromium[#2]	mg/kg	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-

Remarks:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL
The test results of component No. 29&30 were not applicable due to the sample weight of test portion is less than 10 mg.

Note:
[#1] - The migration of organic tin is expressed as tributyltin.
[#2] - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
For Category III, Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.
For Category I & II Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, determination of the content of total Chromium analysis was performed by ICP-MS; Extractable Chromium(III) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	**Unit**	**Result**					
		35	**36**	**37**	**38**	**39**	**40**
Category Type		III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Organic Tin[#1]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium[#2]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-	-

Remarks:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL

Note:
[#1] - The migration of organic tin is expressed as tributyltin.
[#2] - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
For Category III, Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.
For Category I & II Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, determination of the content of total Chromium analysis was performed by ICP-MS; Extractable Chromium(III) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	**Unit**	**Result**					
		42	**44**	**45**	**47**	**48**	**49**
Category Type		III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Organic Tin[#1]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium[#2]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-	-

Remarks:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL
The test results of component No. 41, 43&46 were not applicable due to the sample weight of test portion is less than 10 mg.

Note:
[#1] - The migration of organic tin is expressed as tributyltin.
[#2] - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
For Category III, Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.
For Category I & II Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, determination of the content of total Chromium analysis was performed by ICP-MS; Extractable Chromium(III) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	**Unit**	**Result**					
		50	**51**	**53**	**55**	**57**	**58**
Category Type		III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Organic Tin[#1]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium[#2]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-	-

Remarks:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL
The test results of component No. 52, 54&56 were not applicable due to the sample weight of test portion is less than 10 mg.

Note:
[#1] - The migration of organic tin is expressed as tributyltin.
[#2] - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
For Category III, Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.
For Category I & II Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, determination of the content of total Chromium analysis was performed by ICP-MS; Extractable Chromium(III) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	**Unit**	**Result**					
		59	**60**	**61**	**62**	**63**	**65**
Category Type		III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Organic Tin[#1]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium[#2]	mg/kg	ND	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-	-

Remarks:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL
The test results of component No. 64 was not applicable due to the sample weight of test portion is less than 10 mg.

Note:
[#1] - The migration of organic tin is expressed as tributyltin.
[#2] - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
For Category III, Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.
For Category I & II Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, determination of the content of total Chromium analysis was performed by ICP-MS; Extractable Chromium(III) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	**Unit**	**Result**						
		66	**67**	**68**	**69**	**70**	**71**	**72**
Category Type		III	III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	27.9	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Organic Tin[#1]	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Chromium[#2]	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-	-	-

Remarks:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL

Note:
[#1] - The migration of organic tin is expressed as tributyltin.
[#2] - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
For Category III, Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.
For Category I & II Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, determination of the content of total Chromium analysis was performed by ICP-MS; Extractable Chromium(III) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	**Unit**	**Result**						
		74	**75**	**77**	**78**	**79**	**81**	**82**
Category Type		III	III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Organic Tin[#1]	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Chromium[#2]	mg/kg	ND	ND	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-	-	-

Remarks:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL
The test results of component No. 73, 76&80 were not applicable due to the sample weight of test portion is less than 10 mg.

Note:
[#1] - The migration of organic tin is expressed as tributyltin.
[#2] - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Phthalates Content as specified in Regulation (EU) 2015/326 amending entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3550C:2007, EPA 8270D:2007, solvent extraction and quantification by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					17	18	31
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	-	0.005	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND
Sum (DBP + BBP + DEHP)	-	%	0.1	-	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					32	39	48
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	-	0.005	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND
Sum (DBP + BBP + DEHP)	-	%	0.1	-	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					57	58	67
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	-	0.005	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND
Sum (DBP + BBP + DEHP)	-	%	0.1	-	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					68	81	82
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	-	0.005	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND
Sum (DBP + BBP + DEHP)	-	%	0.1	-	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND	ND

Remark:
MDL = method detection limit
ND = Not detected, less than MDL
"-" = Not Regulated

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement

Requirement: AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG, see table 1 on next page(s):

Parameter	CAS No.	Unit	Result			
			17	**18**	**31**	**32**
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND	ND	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	0.216	ND	ND	0.216
Naphthalene	91-20-3	mg/kg	ND	ND	ND	ND
Sum 18 PAHs	-	mg/kg	0.216	ND	ND	0.216
Summary to above mentioned requirement:	For Category 1		Pass	Pass	Pass	Pass

Remark:
mg/kg = milligram per kilogram
ND = not detected, less than 0.2 mg/kg

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement

Requirement: AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG, see table 1 on next page(s):

Parameter	CAS No.	Unit	Result			
			39	**48**	**57**	**58**
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND	ND	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	0.216	ND	ND	0.376
Naphthalene	91-20-3	mg/kg	ND	ND	ND	ND
Sum 18 PAHs	-	mg/kg	0.216	ND	ND	0.376
Summary to above mentioned requirement:	For Category 1		Pass	Pass	Pass	Pass

Remark:
mg/kg = milligram per kilogram
ND = not detected, less than 0.2 mg/kg

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement

Requirement: AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG, see table 1 on next page(s):

Parameter	CAS No.	Unit	Result			
			67	**68**	**81**	**82**
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND	ND	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	0.216	ND	ND	0.216
Naphthalene	91-20-3	mg/kg	ND	ND	ND	ND
Sum 18 PAHs	-	mg/kg	0.216	ND	ND	0.216
Summary to above mentioned requirement:	For Category 1		Pass	Pass	Pass	Pass

Remark:
mg/kg = milligram per kilogram
ND = not detected, less than 0.2 mg/kg

TO BE CONTINUED

TEST RESULT

Table 1

AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG.

Parameter	Unit	Category 1 Materials indented to be put in the mouth, or materials of toys for children with foreseeable skin contact for longer than 30 seconds (long-term skin contact)	Category 2 Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or short-term repetitive contact with the human skin		Category 3 Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact)	
		-	Toys under Directive 2009/48/EC	Other products under ProdSG	Toys under Directive 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(e)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(a)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(b)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(j)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(k)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo(a,h)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(ghi)perylene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	mg/kg	<1 Sum*	<5 Sum*	<10 Sum*	<20 Sum*	<50 Sum*
Naphthalene	mg/kg	<1	<2		<10	
Sum* 18 PAHs	mg/kg	<1	<5	<10	<20	<50

* = Only those PAH components are taken into account, which have been specified in the material over the 0.2 mg/kg.

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 14362-1:2012, EN 14362-3:2012
5-60 mg/kg quantitative, >60 mg/kg semi quantitative
Determination by Gas Chromatography-Mass Selective Detection (GC-MSD) and Confirmation by High Performance Liquid Chromatographic Analysis (HPLC/DAD).

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					4+5+6	19+20+21
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND
4,4'-Benzidine	92-87-5	mg/kg	30	5	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND	ND
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	5	ND	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	5	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND	ND
3,3'-Dimethyl-4,4'-diaminadiphenylmethane	838-88-0	mg/kg	30	5	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND
o-Tolidine	95-53-4	mg/kg	30	5	ND	ND
2,4-Diaminotoluene	95-80-7	mg/kg	30	5	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	5	ND	ND

Remark:
MDL = method detection limit
ND = Not detected, less than MDL
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Note 1: o-Aminoazotoluene(CAS No.:97-56-3) is reduced to o-Toluidine(CAS No.:95-53-4) and quantified by this.
Note 2: 5-Nitro-o-toluidine(CAS No.:99-55-8) is reduced to 4-Methyl-m-phenylene Diamine (CAS No.:95-80-7) and quantified by this.
Note 3: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine. Need further confirmation when aniline and 1,4-phenylenediamine are detected.

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 14362-1:2012, EN 14362-3:2012
5-60 mg/kg quantitative, >60 mg/kg semi quantitative
Determination by Gas Chromatography-Mass Selective Detection (GC-MSD) and Confirmation by High Performance Liquid Chromatographic Analysis (HPLC/DAD).

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result
					61+62
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND
4,4'-Benzidine	92-87-5	mg/kg	30	5	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	5	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	5	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND
3,3'-Dimethyl-4,4'-diaminadiphenylmethane	838-88-0	mg/kg	30	5	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	5	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND
o-Tolidine	95-53-4	mg/kg	30	5	ND
2,4-Diaminotoluene	95-80-7	mg/kg	30	5	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	5	ND

Remark:
MDL = method detection limit
ND = Not detected, less than MDL
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Note 1: o-Aminoazotoluene(CAS No.:97-56-3) is reduced to o-Toluidine(CAS No.:95-53-4) and quantified by this.
Note 2: 5-Nitro-o-toluidine(CAS No.:99-55-8) is reduced to 4-Methyl-m-phenylene Diamine (CAS No.:95-80-7) and quantified by this.
Note 3: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine. Need further confirmation when aniline and 1,4-phenylenediamine are detected.

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 14362-1:2012
5-60 mg/kg quantitative, >60 mg/kg semi quantitative
Determination by Gas Chromatography-Mass Selective Detection (GC-MSD) and Confirmation by High Performance Liquid Chromatographic Analysis (HPLC/DAD).

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					1+2+3	7	8
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND	ND
4,4'-Benzidine	92-87-5	mg/kg	30	5	ND	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND	ND	ND
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	5	ND	ND	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	5	ND	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND	ND	ND
3,3'-Dimethyl-4,4'-diaminadiphenylmethane	838-88-0	mg/kg	30	5	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND	ND
o-Tolidine	95-53-4	mg/kg	30	5	ND	ND	ND
2,4-Diaminotoluene	95-80-7	mg/kg	30	5	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND	ND
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	5	ND	ND	ND

Remark:
MDL = method detection limit
ND = Not detected, less than MDL
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Note 1: o-Aminoazotoluene(CAS No.:97-56-3) is reduced to o-Toluidine(CAS No.:95-53-4) and quantified by this.
Note 2: 5-Nitro-o-toluidine(CAS No.:99-55-8) is reduced to 4-Methyl-m-phenylene Diamine (CAS No.:95-80-7) and quantified by this.
Note 3: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine. Need further confirmation when aniline and 1,4-phenylenediamine are detected.

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 14362-1:2012
5-60 mg/kg quantitative, >60 mg/kg semi quantitative
Determination by Gas Chromatography-Mass Selective Detection (GC-MSD) and Confirmation by High Performance Liquid Chromatographic Analysis (HPLC/DAD).

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					22+23	49+50+51
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND
4,4'-Benzidine	92-87-5	mg/kg	30	5	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND	ND
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	5	ND	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	5	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND	ND
3,3'-Dimethyl-4,4'-diaminadiphenylmethane	838-88-0	mg/kg	30	5	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND
o-Tolidine	95-53-4	mg/kg	30	5	ND	ND
2,4-Diaminotoluene	95-80-7	mg/kg	30	5	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	5	ND	ND

Remark:
MDL = method detection limit
ND = Not detected, less than MDL
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Note 1: o-Aminoazotoluene(CAS No.:97-56-3) is reduced to o-Toluidine(CAS No.:95-53-4) and quantified by this.
Note 2: 5-Nitro-o-toluidine(CAS No.:99-55-8) is reduced to 4-Methyl-m-phenylene Diamine (CAS No.:95-80-7) and quantified by this.
Note 3: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine. Need further confirmation when aniline and 1,4-phenylenediamine are detected.

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 14362-1:2012
5-60 mg/kg quantitative, >60 mg/kg semi quantitative
Determination by Gas Chromatography-Mass Selective Detection (GC-MSD) and Confirmation by High Performance Liquid Chromatographic Analysis (HPLC/DAD).

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					33+34+35	36+37	38
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND	ND
4,4'-Benzidine	92-87-5	mg/kg	30	5	ND	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND	ND	ND
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	5	ND	ND	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	5	ND	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND	ND	ND
3,3'-Dimethyl-4,4'-diaminadiphenylmethane	838-88-0	mg/kg	30	5	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND	ND
o-Tolidine	95-53-4	mg/kg	30	5	ND	ND	ND
2,4-Diaminotoluene	95-80-7	mg/kg	30	5	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND	ND
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	5	ND	ND	ND

Remark:
MDL = method detection limit
ND = Not detected, less than MDL
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Note 1: o-Aminoazotoluene(CAS No.:97-56-3) is reduced to o-Toluidine(CAS No.:95-53-4) and quantified by this.
Note 2: 5-Nitro-o-toluidine(CAS No.:99-55-8) is reduced to 4-Methyl-m-phenylene Diamine (CAS No.:95-80-7) and quantified by this.
Note 3: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine. Need further confirmation when aniline and 1,4-phenylenediamine are detected.

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 14362-1:2012
5-60 mg/kg quantitative, >60 mg/kg semi quantitative
Determination by Gas Chromatography-Mass Selective Detection (GC-MSD) and Confirmation by High Performance Liquid Chromatographic Analysis (HPLC/DAD).

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					59+60	69+70	71+72
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND	ND
4,4'-Benzidine	92-87-5	mg/kg	30	5	ND	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND	ND	ND
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	5	ND	ND	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	5	ND	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND	ND	ND
3,3'-Dimethyl-4,4'-diaminadiphenylmethane	838-88-0	mg/kg	30	5	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND	ND
o-Tolidine	95-53-4	mg/kg	30	5	ND	ND	ND
2,4-Diaminotoluene	95-80-7	mg/kg	30	5	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND	ND
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	5	ND	ND	ND

Remark:
MDL = method detection limit
ND = Not detected, less than MDL
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Note 1: o-Aminoazotoluene(CAS No.:97-56-3) is reduced to o-Toluidine(CAS No.:95-53-4) and quantified by this.
Note 2: 5-Nitro-o-toluidine(CAS No.:99-55-8) is reduced to 4-Methyl-m-phenylene Diamine (CAS No.:95-80-7) and quantified by this.
Note 3: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine. Need further confirmation when aniline and 1,4-phenylenediamine are detected.

TO BE CONTINUED

TEST RESULT

Colourants and Primary Aromatic Amines (First-ActionTest, Colourfastness to Perspiration)
EN71 Part 9:2005 + A1:2007, ISO 105-E04:2013

	A		Requirement:
	Acid	Alkaline	Grade 3-4
Colour Change	4-5	4-5	
Colour Staining			
Acetate	4-5	4-5	
Cotton	4-5	4-5	
Nylon	4-5	4-5	
Polyester/Silk	4-5	4-5	
Acrylic/Rayon	4-5	4-5	
Wool/Viscose Rayon	4-5	4-5	

	B		Requirement:
	Acid	Alkaline	Grade 3-4
Colour Change	4-5	4-5	
Self Staining	5	5	
Colour Staining			
Acetate	4-5	4-5	
Cotton	4-5	4-5	
Nylon	4-5	4-5	
Polyester/Silk	4-5	4-5	
Acrylic/Rayon	4-5	4-5	
Wool/Viscose Rayon	4-5	4-5	

	C		Requirement:
	Acid	Alkaline	Grade 3-4
Colour Change	4-5	4-5	
Colour Staining			
Acetate	4-5	4-5	
Cotton	4-5	4-5	
Nylon	4-5	4-5	
Polyester/Silk	4-5	4-5	
Acrylic/Rayon	4-5	4-5	
Wool/Viscose Rayon	4-5	4-5	

Remark:
Grey Scale for Assessing Colour Change/Staining

Grade 5	negligible or no change or staining
Grade 4	slightly changed or stained
Grade 3	noticeably changed or stained
Grade 2	considerably changed or stained
Grade 1	much changed or stained

If samples are found not to be colourfast, they shall be tested by the final-action method for colourants and primary aromatic amines.

TO BE CONTINUED

TEST RESULT

Colourants and Primary Aromatic Amines (First-ActionTest, Colourfastness to Perspiration)

EN71 Part 9:2005 + A1:2007, ISO 105-E04:2013

	D		Requirement:
	Acid	Alkaline	Grade 3-4
Colour Change	4-5	4-5	
Self Staining	5	5	
Colour Staining			
Acetate	4-5	4-5	
Cotton	4-5	4-5	
Nylon	4-5	4-5	
Polyester/Silk	4-5	4-5	
Acrylic/Rayon	4-5	4-5	
Wool/Viscose Rayon	4-5	4-5	

	E		Requirement:
	Acid	Alkaline	Grade 3-4
Colour Change	4-5	4-5	
Self Staining	5	5	
Colour Staining			
Acetate	4-5	4-5	
Cotton	4-5	4-5	
Nylon	4-5	4-5	
Polyester/Silk	4-5	4-5	
Acrylic/Rayon	4-5	4-5	
Wool/Viscose Rayon	4-5	4-5	

	F		Requirement:
	Acid	Alkaline	Grade 3-4
Colour Change	4-5	4-5	
Self Staining	5	5	
Colour Staining			
Acetate	4-5	4-5	
Cotton	4-5	4-5	
Nylon	4-5	4-5	
Polyester/Silk	4-5	4-5	
Acrylic/Rayon	4-5	4-5	
Wool/Viscose Rayon	4-5	4-5	

Remark:
Grey Scale for Assessing Colour Change/Staining

Grade 5	negligible or no change or staining
Grade 4	slightly changed or stained
Grade 3	noticeably changed or stained
Grade 2	considerably changed or stained
Grade 1	much changed or stained

If samples are found not to be colourfast, they shall be tested by the final-action method for colourants and primary aromatic amines.

TO BE CONTINUED

TEST RESULT

Formaldehyde Content

Test Request: Formaldehyde content as specified in EN71 Part 9:2005 + A1:2007.

Test Method: ISO 14184-1:2011, free and hydrolized formaldehyde (water extraction method).

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result					
					1	2	3	4	5	6
Formaldehyde	50-00-0	mg/kg	30	16	ND	ND	ND	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result						
					7	8	19	20	21	22	23
Formaldehyde	50-00-0	mg/kg	30	16	ND	ND	ND	ND	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result						
					33	34	35	36	37	38	49
Formaldehyde	50-00-0	mg/kg	30	16	ND	ND	ND	ND	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result					
					50	51	52	59	60	61
Formaldehyde	50-00-0	mg/kg	30	16	ND	ND	ND	ND	ND	ND

Remark:
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

Flame Retardant Content

Test Request: Flame retardant content as specified in EN71 Part 9:2005 + A1:2007.

Test Method: Sample preparation with reference to EN 71-10:2005 followed by analysis with reference to EN71-11:2005.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					1+2+3	4+5+6
Tri-o-cresyl-phosphate (TOCP)	78-30-8	mg/kg	50	5	ND	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	mg/kg	50	5	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					7+8	19+20+21
Tri-o-cresyl-phosphate (TOCP)	78-30-8	mg/kg	50	5	ND	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	mg/kg	50	5	ND	ND

Remark:
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

TEST RESULT

Flame Retardant Content

Test Request: Flame retardant content as specified in EN71 Part 9:2005 + A1:2007.

Test Method: Sample preparation with reference to EN 71-10:2005 followed by analysis with reference to EN71-11:2005.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					22+23	33+34+35
Tri-o-cresyl-phosphate (TOCP)	78-30-8	mg/kg	50	5	ND	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	mg/kg	50	5	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					36+37	38
Tri-o-cresyl-phosphate (TOCP)	78-30-8	mg/kg	50	5	ND	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	mg/kg	50	5	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					49+50+51	59+60
Tri-o-cresyl-phosphate (TOCP)	78-30-8	mg/kg	50	5	ND	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	mg/kg	50	5	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					61+62	69+70	71+72
Tri-o-cresyl-phosphate (TOCP)	78-30-8	mg/kg	50	5	ND	ND	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	mg/kg	50	5	ND	ND	ND

Remark:
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

TEST RESULT

Monomers Content

Test Request: Monomers content as specified in EN71 Part 9:2005 + A1:2007.

Test Method: Sample preparation with reference to EN 71-10:2005 followed by analysis with reference to EN71-11:2005.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					18	31	48
Acrylamide	79-06-1	mg/l	0.02	0.02	ND	ND	ND
Bisphenol A	80-05-7	mg/l	0.1	0.1	ND	ND	ND
Formaldehyde	50-00-0	mg/l	2.5	0.25	ND	ND	ND
Phenol	108-95-2	mg/l	15	15	ND	ND	ND
Styrene	100-42-4	mg/l	0.75	0.75	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					57	68	81
Acrylamide	79-06-1	mg/l	0.02	0.02	ND	ND	ND
Bisphenol A	80-05-7	mg/l	0.1	0.1	ND	ND	ND
Formaldehyde	50-00-0	mg/l	2.5	0.25	ND	ND	ND
Phenol	108-95-2	mg/l	15	15	ND	ND	ND
Styrene	100-42-4	mg/l	0.75	0.75	ND	ND	ND

Remark:
mg/l = milligram per liter
MDL = method detection limit
ND = Not detected, less than MDL

Solvents (Migration) Content

Test Request: Solvents (Migration) content as specified in EN71 Part 9:2005 + A1:2007.

Test Method: Sample preparation with reference to EN 71-10:2005 followed by analysis with reference to EN71-11:2005.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					18	31	48
Trichloroethylene	79-01-6	mg/l	0.02	0.02	ND	ND	ND
Dichloromethane	75-09-2	mg/l	0.06	0.02	ND	ND	ND
2-Methoxyethyl acetate	110-49-6	mg/l	0.5(total)	0.05	ND	ND	ND
2-Ethoxyethanol	110-80-5	mg/l		0.05	ND	ND	ND
2-Ethoxyethyl acetate	111-15-9	mg/l		0.05	ND	ND	ND
Bis(2-methoxyethyl) ether	111-96-6	mg/l		0.05	ND	ND	ND
2-Methoxypropyl acetate	70657-70-4	mg/l		0.05	ND	ND	ND
Methanol	67-56-1	mg/l	5	0.05	ND	ND	ND
Nitrobenzene	98-95-3	mg/l	0.02	0.02	ND	ND	ND
Cyclohexanone	108-94-1	mg/l	46	0.1	ND	ND	ND
3,5,5-Trimethyl-2-cyclohexene-1-one	78-59-1	mg/l	3	0.1	ND	ND	ND
Toluene	108-88-3	mg/l	2	0.1	ND	ND	ND
Ethylbenzene	100-41-4	mg/l	1	0.1	ND	ND	ND
Xylene (all isomers)	Various	mg/l	2(total)	0.1	ND	ND	ND

Remark:
mg/l = milligram per liter
MDL = method detection limit
ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Solvents (Migration) Content

Test Request: Solvents (Migration) content as specified in EN71 Part 9:2005 + A1:2007.

Test Method: Sample preparation with reference to EN 71-10:2005 followed by analysis with reference to EN71-11:2005.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					57	68	81
Trichloroethylene	79-01-6	mg/l	0.02	0.02	ND	ND	ND
Dichloromethane	75-09-2	mg/l	0.06	0.02	ND	ND	ND
2-Methoxyethyl acetate	110-49-6	mg/l	0.5(total)	0.05	ND	ND	ND
2-Ethoxyethanol	110-80-5	mg/l		0.05	ND	ND	ND
2-Ethoxyethyl acetate	111-15-9	mg/l		0.05	ND	ND	ND
Bis(2-methoxyethyl) ether	111-96-6	mg/l		0.05	ND	ND	ND
2-Methoxypropyl acetate	70657-70-4	mg/l		0.05	ND	ND	ND
Methanol	67-56-1	mg/l	5	0.05	ND	ND	ND
Nitrobenzene	98-95-3	mg/l	0.02	0.02	ND	ND	ND
Cyclohexanone	108-94-1	mg/l	46	0.1	ND	ND	ND
3,5,5-Trimethyl-2-cyclohexene-1-one	78-59-1	mg/l	3	0.1	ND	ND	ND
Toluene	108-88-3	mg/l	2	0.1	ND	ND	ND
Ethylbenzene	100-41-4	mg/l	1	0.1	ND	ND	ND
Xylene (all isomers)	Various	mg/l	2(total)	0.1	ND	ND	ND

Remark:
mg/l = milligram per liter
MDL = method detection limit
ND = Not detected, less than MDL

Plasticisers Content

Test Request: Plasticisers content as specified in EN71 Part 9:2005 + A1:2007.

Test Method: Sample preparation with reference to EN 71-10:2005 followed by analysis with reference to EN71-11:2005.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					18	31	48
Triphenyl phosphate	115-86-6	mg/l	0.03	0.01	ND	ND	ND
Tri-*o*-cresyl phosphate	78-30-8	mg/l	0.03	0.01	ND	ND	ND
Tri-*m*-cresyl phosphate	563-04-2	mg/l	0.03	0.01	ND	ND	ND
Tri-*p*-cresyl phosphate	78-32-0	mg/l	0.03	0.01	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					57	68	81
Triphenyl phosphate	115-86-6	mg/l	0.03	0.01	ND	ND	ND
Tri-*o*-cresyl phosphate	78-30-8	mg/l	0.03	0.01	ND	ND	ND
Tri-*m*-cresyl phosphate	563-04-2	mg/l	0.03	0.01	ND	ND	ND
Tri-*p*-cresyl phosphate	78-32-0	mg/l	0.03	0.01	ND	ND	ND

Remark:
mg/l = milligram per liter
MDL = method detection limit
ND = Not detected, less than MDL
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

END OF THE REPORT