



Test Report

No.: T52110270235TY

Date: JUN 24, 2021

Page 1 of 92

Tiny Love Test Report

Applicant:	TINY LOVE LTD
Address:	KORENDIJK 5, NL-5704 RD, HELMOND
Contact Person:	SMADAR CAHLON, YARDEN LABEL, ASTIN LEE, BRAIN CHENG

Sample Description:	TREASURE THE OCEAN 3-IN-1 MOBILE GYMINI		
Style/Item No.:	120700E001, 120770E001	PO No.:	/
Country of Destination:	/	Country of Origin:	CHINA
Vendor:	WINFIELD		
Manufacturer:	/		
Date Code:	/		
Intended Age Grade on Label:	0-36M		

Age Group Applied in Testing:	ALL AGES		
Date In:	JUN 02, 2021		
Date Out:	JUN 24, 2021		
Working Days:	7+		
Further Information Date:	/	Sample Resubmission Date:	JUN 17, 2021



SGS-CSTC (China) Technical Services Co., Ltd.
Shenzhen Branch Testing Center Handlines

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Member of the SGS Group (SGS SA)

Test Requested	Conclusion
1. Client's Requirement –Alkylphenol Ethoxylates (APEOs) – Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs) content in the specified specimen(s) as listed	PASS
2. Client's Requirement –Alkylphenol (AP)– Nonylphenol (NP) and Octylphenol (OP) content in the specified specimen(s) as listed	PASS
3. Client's Requirement – Phenols Content in the specified specimen(s) as listed	PASS
4. Test for compliance with the electric toys safety requirement with reference to IEC 62115: 2017.	PASS
5. For compliance with the European standard on Safety of toys:-	--
EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
EN 71-2:2011+A1:2014 – Safety of toys – Part 2: Flammability	PASS
EN 71-2: 2020 – Safety of toys – Part 2: Flammability	PASS
Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys	SEE RESULT
Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 – Migration of certain elements in the specified specimen(s) as listed	PASS
6. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Cadmium content	PASS
7. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalates content	PASS
8. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments including (EU) 2020/2096 – AZO Colourants	PASS



Test Requested		Conclusion
9.	European commission directive (EU) 2019/1929 – Formaldehyde in the specified specimen(s) as listed	PASS
	Client's Requirement – Formaldehyde in the specified specimen(s) as listed	PASS
10.	Test for compliance with the electric toys safety requirement with reference to: EN IEC 62115:2020 Electric toys – safety EN IEC 62115:2020/A11:2020	PASS
11.	France Act 2012-1442 of 24 Dec 2012 - Bisphenol A (BPA) content	--
	Plastic/Coating – Total Content of Bisphenol A	PASS
12.	Client's Requirement – Polycyclic Aromatic Hydrocarbons (PAHs) Content in the specified specimen(s) as listed	PASS
13.	Client's Requirement – Phthalates Content	PASS
14.	EN71-12:2016-N-nitrosamines and N-nitrosatable substances (Selected specimen(s) was/were tested as specified by the applicant, please refer to test result page(s) for details)	PASS
15.	Colour Fastness to Rubbing (EN ISO 105-X12:2016)	SEE RESULT

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



Picture Page

Sample Picture (As received)

Pic.1



Signed for and on behalf of
 SGS-CSTC Standards Technical
 Services Co., Ltd. Shenzhen Branch Testing Center

Qu Ping, Kiky
 Dept. Manager

Xiao Yongbo, Spring
 Supervisor



Signed for and on behalf of
 SGS-CSTC Standards Technical
 Services Co., Ltd. Shenzhen Branch Testing Center

Liu Junjie, Tony
 Section Manager

Chen Canjie, Anson
 Supervisor



Results:
Alkylphenol Ethoxylates (APEOs) – Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs) content

Method: Solvent extraction

Analysis was performed by High Performance Liquid Chromatography with Diode Array Detector & Mass Spectrometer (HPLC-DAD-MS) / Triple Quadrupole Liquid Chromatograph Mass Spectrometer (LC-MS/MS)

Test Item(s)	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	1	2	3		
Alias No.	3	3	3		
Tracing No.	1	2	3		
Nonylphenol Ethoxylates (NPEOs)	ND	ND	ND	30	100
Octylphenol Ethoxylates (OPEOs)	ND	ND	ND	30	100

Test Item(s)	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	4	5	6		
Alias No.	3	3	3		
Tracing No.	4	5	6		
Nonylphenol Ethoxylates (NPEOs)	ND	ND	ND	30	100
Octylphenol Ethoxylates (OPEOs)	ND	ND	ND	30	100

Test Item(s)	Result(s) (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	7	8		
Alias No.	3	3		
Tracing No.	7	8		
Nonylphenol Ethoxylates (NPEOs)	ND	ND	30	100
Octylphenol Ethoxylates (OPEOs)	ND	ND	30	100



Specimen Description:

1. Orange satin ribbon (Mat) (F) w/ Green satin ribbon (Mat) (G) + Dark green satin ribbon (Accessory) (H) + Blue satin ribbon (Mat, accessory) (I)
2. Light cyan woven cord (Connection) w/ light green fabric thread (Body) (J) + Grey-white woven band (Connection) w/ white, dark blue fabric thread (Body) (K)
3. White satinet w/ black, red, blue, brown printing (Sewn-in label) (L) + White tricot w/ multi-color printing (Accessory, body, face, limb, eye, mouth, eyebrow, mat) (AU) + White fabric w/ multi-color printing (Mat, accessory) (AT)
4. Light grey fabric (Binding) (T) + Light grey non-woven w/ light grey, dark green fabric thread (Mat) (U)
5. Off-white polyfiber (Inner) (AN) + White polyfiber (Inner) (AX)
6. White fabric (Inner) (AO) + White woven band (Binding) w/ light blue, red fabric thread (Body) (AP)
7. White tricot (Inner) (AY) + Bright white mesh (Inner) (BA) + White non-woven w/ bright white fabric thread (Body) (CH)
8. White non-woven w/ bright white fabric thread w/ black printing (Body) (CJ)

- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - 1% = 10000 mg/kg = 10000 ppm
 - The result(s) is (are) calculated using the total specimen weight for composite test.
 - Result(s) is(are) extracted from report No. T52110260088SN.



Alkylphenol (AP) – Nonylphenol (NP) and Octylphenol (OP) content

Method: Solvent extraction

Analysis was performed by High Performance Liquid Chromatography with Diode Array Detector & Mass Spectrometer (HPLC-DAD-MS) / Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	1	2	3		
Alias No.	1	1	1		
Tracing No.	1	2	3		
Nonylphenol (NP)	ND	ND	ND	5	100
Octylphenol (OP)	ND	ND	ND	5	100

Test Item(s)	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	4	5	6		
Alias No.	1	1	1		
Tracing No.	4	5	6		
Nonylphenol (NP)	ND	ND	ND	5	100
Octylphenol (OP)	ND	ND	ND	5	100

Test Item(s)	Result(s) (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	7	8		
Alias No.	1	1		
Tracing No.	7	8		
Nonylphenol (NP)	ND	ND	5	100
Octylphenol (OP)	ND	ND	5	100


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Specimen Description:

1. Orange satin ribbon (Mat) (F) w/ Green satin ribbon (Mat) (G) w/ Dark green satin ribbon (Accessory) (H) + Blue satin ribbon (Mat, accessory) (I)
2. Light cyan woven cord (Connection) w/ light green fabric thread (Body) (J) + Grey-white woven band (Connection) w/ white, dark blue fabric thread (Body) (K)
3. White satinet w/ black, red, blue, brown printing (Sewn-in label) (L) + White tricot w/ multi-color printing (Accessory, body, face, limb, eye, mouth, eyebrow, mat) (AU) + White fabric w/ multi-color printing (Mat, accessory) (AT)
4. Light grey fabric (Binding) (T) + Light grey non-woven w/ light grey, dark green fabric thread (Mat) (U)
5. Off-white polyfiber (Inner) (AN) + White polyfiber (Inner) (AX)
6. White fabric (Inner) (AO) + White woven band (Binding) w/ light blue, red fabric thread (Body) (AP)
7. White tricot (Inner) (AY) + Bright white mesh (Inner) (BA)
8. White non-woven w/ bright white fabric thread w/ black printing (Body) (CJ)

- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - 1% = 10000 mg/kg = 10000 ppm
 - The result(s) is (are) calculated using the total specimen weight for composite test.



Phenols

Test Method : SGS In house method (GZTC CHEM-TOP-055-01, with reference to EPA 3550C:2007), analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Client's Limit	Unit	MDL	001	002	003
Ortho -Phenylphenol (OPP)	90-43-7	100	mg/kg	0.5	ND	ND	ND
Test Item(s)	CAS NO.	Client's Limit	Unit	MDL	004	005	006
Ortho -Phenylphenol (OPP)	90-43-7	100	mg/kg	0.5	ND	ND	ND
Test Item(s)	CAS NO.	Client's Limit	Unit	MDL	007	008	
Ortho -Phenylphenol (OPP)	90-43-7	100	mg/kg	0.5	ND	ND	

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-086624.001	Orange satin ribbon (Mat) (F) w/ Green satin ribbon (Mat) (G) + Dark green satin ribbon (Accessory) (H) + Blue satin ribbon (Mat, accessory) (I)
SN2	CAN21-086624.002	Light cyan woven cord (Connection) w/ light green fabric thread (Body) (J) + Grey-white woven band (Connection) w/ white, dark blue fabric thread (Body) (K)
SN3	CAN21-086624.003	White satinet w/ black, red, blue, brown printing (Sewn-in label) (L) + White tricot w/ multi-color printing (Accessory, body, face, limb, eye, mouth, eyebrow, mat) (AU) + White fabric w/ multi-color printing (Mat, accessory) (AT)
SN4	CAN21-086624.004	Light grey fabric (Binding) (T) + Light grey non-woven w/ light grey, dark green fabric thread (Mat) (U)
SN5	CAN21-086624.005	Off-white polyfiber (Inner) (AN) + White polyfiber (Inner) (AX)
SN6	CAN21-086624.006	White fabric (Inner) (AO) + White woven band (Binding) w/ light blue, red fabric thread (Body) (AP)
SN7	CAN21-086624.007	White tricot (Inner) (AY) w/ Bright white mesh (Inner) (BA) + White non-woven w/ bright white fabric thread (Body) (CH)
SN8	CAN21-093680.008	White non-woven w/ bright white fabric thread w/ black printing (Body) (CJ)



Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated
- (5) The test was conducted by SGS-CSTC Guangzhou Lab, The decision rule of this test item is based on the Binary Statement for Simple Acceptance Rule ($w=0$) in ILAC-G8:09/2019 Clause 4.2.1
- (6) Result(s) is(are) extracted from report No. T52110260088SN

Remark1: Results shown are of the total weight of mixed samples.

Remark2: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference..



IEC 62115: 2017 SPECIFICATION REQUIREMENTS & TEST RESULTS

<u>Clause</u>	<u>Assessment</u>
1. Scope	--
2. Normative references	--
3. Terms and Definitions	--
4. General requirement	--
5. General conditions for the tests	--
6. Criteria for reduced testing	--
7. Marking and instructions	Pass
(Remark: According to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold. Only English version was reviewed in this report.)	
8. Power input	N/A
9. Heating and abnormal operation	Pass
10. Electric strength	Pass
11. Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	N/A
12. Mechanical strength	Pass
13. Construction	Pass
14. Protection of cords and wires	Pass
15. Components	Pass
16. Screws and connections	Pass
17. Creepage distances and clearances	Pass
18. Resistance to heat and fire	Pass
19. Emission from electric toys incorporating lasers and or light emitting diodes or UV emitting lamps	Pass
Toxicological hazards shall comply with ISO 8124 series of standards	--
(Remark: It is the manufacturer's responsibility to ensure the toy does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.)	
Modulated accessible emission	Pass
-Tested flashing frequency less than 4 Hz or more than 60 Hz	
Toys with an integrated field source shall comply with Annex I	N/A
(Remark: The submitted sample did not incorporate part which consuming a current more than 3A.)	

N/A = Not Applicable



Detail of Radiation, and similar hazards

Electric toys incorporating lasers and or LED or UV emitting lamps comply with requirement.

Part under test	Emission wavelength range	Peak emission wavelength	Measure distance	Measured emission	Emission limit
Blue LED	400-780 nm	460.4 nm	200 mm	0.0008 W/sr	0.04 W/sr
Green LED	400-780 nm	530.2 nm	200 mm	0.0005 W/sr	0.04 W/sr
Orange LED	400-780 nm	603.4 nm	200 mm	0.0002 W/sr	0.04 W/sr

EUROPEAN STANDARD ON SAFETY OF TOYS

EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.10	Parts moving against each other:	
	4.10.2 Driving mechanisms	Pass
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	Pass
4.20	Acoustics	Pass (See Table 1)



<u>Clause</u>	<u>Description</u>	<u>Result</u>
5	Toys intended for children under 36 months	
5.1	General requirements:	
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	<u>Pass</u>
5.1b	Torque test (Test method 8.3)	<u>Pass</u>
	Tension test (Test method 8.4)	<u>Pass</u>
	Drop test (Test method 8.5)	<u>Pass</u>
	Tip over test (Test method 8.6)	<u>Pass</u>
	Impact test (Test method 8.7)	<u>Pass</u>
	Compression test (Test method 8.8)	<u>Pass</u>
	Sharp edge (Test method 8.11)	<u>Pass</u>
	Sharp point (Test method 8.12)	<u>Pass</u>
5.1d	Large and bulky toys	<u>Pass</u>
5.1f	The casing of toys intended for children too young to sit up unaided	<u>Pass</u>
5.2	Soft-filled toys and soft-filled parts of a toy	<u>Pass</u>
5.4	Cords, chains and electrical cable in toys	<u>Pass</u>
5.8	Shape and size of certain toys	<u>Pass</u>
7	Warnings, markings and instructions for use	
7.1	General Requirements	<u>Pass</u>
	Please note that for assessing the visibility and legibility of warnings CEN has introduced good practice in the informative Annex 33 by addressing the following aspects:	
	a) Emphasising the warning;	
	b) Contrast, background and colours;	
	c) Reflecting surfaces and obscuring material;	
	d) Font type;	
	e) Font size;	
	f) Logical direction of text.	
	For more details see EN 71-1	

Only English warnings were checked for the clause 7. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.



Table 1:

Electronic sound

Max Result	
L _{pA} : 62.1 dB	L _{pCpeak} : 81.7 dB

Crinkle sound

Max Result	
L _{pA} : 65.0 dB	L _{pCpeak} : 91.6 dB

Rattle sound

Max Result	
L _{pA} : 67.2 dB	L _{pCpeak} : 95.1 dB

EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

Clause	Description	Result
4.1	General requirements	Pass
4.5	Soft filled toys	Pass (See Result Page)

Type of gas: Butane gas used in the test burner

Result Page:

Soft-Filled Toys (clause 4.5)

Sample	Burning rate (mm/sec)
TREASURE THE OCEAN 3-IN-1 MOBILE GYMINI	8.7

(Requirement: The rate of spread of flame on the surface of toy shall be not greater than 30 mm/sec or the toy shall self-extinguish.)



EN 71-2: 2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2: 2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>
4.5	Soft filled toys	<u>Pass (See Result Page)</u>

Type of gas: Butane gas used in the test burner

Result Page:

Soft-Filled Toys (clause 4.5)

<u>Sample</u>	<u>Burning rate (mm/sec)</u>
TREASURE THE OCEAN 3-IN-1 MOBILE GYMINI	8.7

(Requirement: The rate of spread of flame on the surface of toy shall be not greater than 30 mm/sec or the toy shall self-extinguish.)



LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Present	Toy & Packaging
CE mark	Present	Toy & Packaging
Importer's Name & Address	Present	Toy & Packaging
Manufacturer's Name & Address	Present	Toy & Packaging
Product ID	Present	Toy & Packaging

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable."
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.



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Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 – Migration of certain elements

Category III: Scraped-off toy material

Method: With reference to EN 71-3:2019. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis / LC-ICP-MS and organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
	1	2	3		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	0.34	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)			MDL	Permissible Limit
	4	5	6		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	69.5	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)			MDL	Permissible Limit
	7	8	9		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)			MDL	Permissible Limit
	10	11	12		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	16	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	0.16	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)			MDL	Permissible Limit
	13	14	15		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	19	18	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)			MDL	Permissible Limit
	16	17	18		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	19	16	16	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)			MDL	Permissible Limit
	19	20	21		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)			MDL	Permissible Limit
	22	23	24		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)			MDL	Permissible Limit
	25	26	27		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)			MDL	Permissible Limit
	28	29	30		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)		MDL	Permissible Limit
	31	32		
Specimen No.			--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000



SGS-CSTC (Shenzhen) Technical Services Co., Ltd.
Shenzhen Branch Testing Center Handlines

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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	33	34	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000



Specimen Description:

1. Red colored series fabric (Mat) (B)
2. Green colored series fabric (Mat) (C)
3. Black colored series fabric (Mat, pole, accessory) (D)
4. Blue colored series fabric (Mat) (E)
5. Orange satin ribbon (Mat) (F)
6. Green satin ribbon (Mat) (G)
7. Dark green satin ribbon (Accessory) (H)
8. Blue satin ribbon (Mat, accessory) (I)
9. Light cyan woven cord (Connection) w/ light green fabric thread (Body) (J)
10. Grey-white woven band (Connection) w/ white, dark blue fabric thread (Body) (K)
11. White satin w/ black, red, blue, brown printing (Sewn-in label) (L)
12. Red colored series tricot (Accessory) (M)
13. White tricot w/ black printing (Mat, body) (N)
14. White tricot w/ multi-color printing (Face) (O)
15. White tricot w/ light green, green printing (Limb) (P)
16. White tricot w/ dark green, light blue printing (Body) (Q)
17. White tricot w/ blue, yellow printing (Body) (R)
18. White tricot w/ dark blue printing (Eye, eyebrow, mouth) (S)
19. Light grey fabric (Binding) (T)
20. Light grey non-woven w/ light grey, dark green fabric thread (Mat) (U)
21. Transparent plastic film w/ silvery printing w/ white mesh backing (Mat) (V)
22. Dark green plastic (Hook) (W)
23. Bright dark green plastic (Connection) (X)
24. Dull dark orange soft plastic (Accessory) (Y)
25. Transparent plastic (Accessory) (Z)
26. Dull blue plastic (Mirror) (AA)
27. Transparent plastic sheet (Mirror) (AB)



Specimen Description:

- 28. Off-white plastic (Hook, connection) (AC)
- 29. Green soft plastic (Body) (AD)
- 30. Pale blue plastic (Switch) (AE)
- 31. Dark off-white plastic (Box) (AF)
- 32. Dull off-white plastic (Box) (AG)
- 33. White non-woven w/ bright white fabric thread w/ black printing (Body) (CJ)
- 34. Dull dark orange soft plastic (Star) (CI)

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - + Soluble Chromium is not restricted by EN 71-3:2019, results shown only for reference
 - Result(s) of specimen No.1-No.33 is(are) extracted from report No. T52110260088SN

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN 71-3:2019.

Black coating (Eye) (AH), Light blue coating (Pattern) (AI)



European Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – Cadmium Content

Method: With reference to CPSC-CH-E1003-09.1

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3

For Plastic

Test Item(s)	Cadmium (Cd)		
Permissible Limit (mg/kg)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)
1. Dark orange soft plastic (Star) (A) + Dull dark orange soft plastic (Accessory) (Y) + Green soft plastic (Body) (AD)	7	1	ND
2. Transparent plastic film w/ silvery printing w/ white mesh backing (Mat) (V) + Transparent plastic sheet (Mirror) (AB)	7	2	ND
3. Dark green plastic (Hook) (W) + Bright dark green plastic (Connection) (X) + Transparent plastic (Accessory) (Z)	7	3	ND
4. Dull blue plastic (Mirror) (AA) + Off-white plastic (Hook, connection) (AC) + Pale blue plastic (Switch) (AE)	7	4	ND
5. Dark off-white plastic (Box) (AF) + Dull off-white plastic (Box) (AG)	7	5	ND
6. Transparent plastic sheet (Inner) (AJ) w/ Black foam w/ adhesive (Inner) (BE) w/ White plastic (Wire jacket) (BI) w/ Yellow plastic (Wire jacket) (BJ)	7	6	ND
7. White foam (Inner) (AQ) w/ Black plastic (Wire jacket) (BK) w/ Red plastic (Wire jacket) (BL) w/ Green plastic (Flat wire jacket) (BM)	7	7	ND
8. Blue plastic (Flat wire jacket) (AV) w/ Light orange plastic (Flat wire jacket) (BO) w/ Dark red plastic (Thin wire jacket) (BP)	7	8	ND
9. Cream-white plastic (Inner) (AK) + Bright white plastic (Bead) (AM)	7	9	ND
10. Translucent white plastic (Plug) (AR) + Light cream plastic (Gear) (BG) + Transparent plastic (LED) (BH)	7	10	ND
11. Cream plastic (Pole) (AS) + Black plastic (Switch) (BD)	7	11	ND
12. Dull cream plastic (Motor) (CA) w/ White plastic sheet (Motor washer) (CB) w/ White plastic sheet (Motor rotor) (CC) w/ Dark cream plastic (Motor bushing) (CD)	7	12	ND
13. Translucent white double-side adhesive tape w/ silvery printing (Inner) (AW) + Black plastic (Flat wire jacket) (BN) w/ Black plastic (Thin wire jacket) (BQ)	7	13	ND
14. White sponge (Inner) (AZ) w/ Transparent plastic sheet (Washer) (BB) w/ Yellow dry glue (Inner) (BC)	7	14	ND



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Test Item(s)	Cadmium (Cd)		
Permissible Limit (mg/kg)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)
15. Bright white plastic (Gear, box of gear) (BF) w/ Black plastic sheet w/ white printing (Inner) (BR) w/ Blue-purple plastic (Inner) (BS) w/ Black plastic (Inner) (BT)	7	15	ND
16. White plastic (Box) (AL) w/ Black plastic ring (Speaker) (BW) w/ Black plastic sheet (Speaker) (BX) w/ Transparent dry glue (Inner) (BY) w/ Black dry glue (Speaker) (BZ)	7	16	ND
17. Transparent PCB w/ white, green printing (Inner) w/ black material (Chip audion) (CE) + Brown PCB w/ red printing (Switch) (CF) w/ White PCB w/ green printing (Speaker) (CG)	7	17	ND
18. Dull dark orange soft plastic (Star) (CI)	7	18	ND

For Paint on Painted Article

Test Item(s)	Cadmium (Cd)		
Permissible Limit (mg/kg)	1000		
Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)
1. Black material on PCB (BU)	8	1	ND
2. Black coating (Eye) (AH) + Light blue coating (Pattern) (AI)	8	2	ND

- Note:
- Permissible and Reference Limit specified by Commission Regulation (EU) No 494/2011 & Commission Regulation (EU) No 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under entry 23 of Regulation (EC) No 552/2009 and directive 91/338/EC).
 - mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 5 mg/kg
 - 1% = 10000 mg/kg = 10000 ppm
 - The result(s) is (are) calculated using the minimum specimen weight for composite test.
 - For Plastic: Result(s) of specimen No.1-No.17 is(are) extracted from report No. T52110260088SN
 - For Paint on Painted Article: Result(s) is(are) extracted from report No. T52110260088SN



European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalate content

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Materials can be placed in the mouth for toys & childcare articles

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
		1	2	3		
Alias No.	--	9	9	9		
Tracing No.	--	1	2	3		
Specimen No.	--	1	2	3		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1



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Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
Alias No.	--	9	9		
Tracing No.	--	4	5		
Specimen No.	--	4	5		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	--	0.1

Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
Alias No.	--	9	9		
Tracing No.	--	17	18		
Specimen No.	--	6	7		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	--	0.1



Specimen Description:

1. Dark orange soft plastic (Star) (A) + Dull dark orange soft plastic (Accessory) (Y) + Green soft plastic (Body) (AD)
2. Transparent plastic film w/ silvery printing w/ white mesh backing (Mat) (V) + Transparent plastic sheet (Mirror) (AB)
3. Dark green plastic (Hook) (W) + Bright dark green plastic (Connection) (X) + Transparent plastic (Accessory) (Z)
4. Dull blue plastic (Mirror) (AA) + Off-white plastic (Hook, connection) (AC) + Pale blue plastic (Switch) (AE)
5. Dark off-white plastic (Box) (AF) + Dull off-white plastic (Box) (AG)
6. Black coating (Eye) (AH) + Light blue coating (Pattern) (AI)
7. Dull dark orange soft plastic (Star) (CI)

Materials can not be placed in the mouth for toys & childcare articles or plasticized material in the other article.

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
		9	9	9		
Alias No.	--	9	9	9		
Tracing No.	--	6	7	8		
Specimen No.	--	1	2	3		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1



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Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Alias No.	--	9	9	9		
Tracing No.	--	9	10	11		
Specimen No.	--	4	5	6		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Alias No.	--	9	9	9		
Tracing No.	--	12	13	14		
Specimen No.	--	7	8	9		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1

Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
Alias No.	--	9	9		
Tracing No.	--	15	16		
Specimen No.	--	10	11		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	--	0.1



Specimen Description:

1. Transparent plastic sheet (Inner) (AJ) w/ Black foam w/ adhesive (Inner) (BE) w/ White plastic (Wire jacket) (BI) w/ Yellow plastic (Wire jacket) (BJ)
2. White foam (Inner) (AQ) w/ Black plastic (Wire jacket) (BK) w/ Red plastic (Wire jacket) (BL) w/ Green plastic (Flat wire jacket) (BM)
3. Blue plastic (Flat wire jacket) (AV) w/ Light orange plastic (Flat wire jacket) (BO) w/ Dark red plastic (Thin wire jacket) (BP)
4. Cream-white plastic (Inner) (AK) + White plastic (Box) (AL) + Bright white plastic (Bead) (AM)
5. Translucent white plastic (Plug) (AR) + Light cream plastic (Gear) (BG) + Transparent plastic (LED) (BH)
6. Cream plastic (Pole) (AS) + Black plastic (Switch) (BD) + Dull cream plastic (Motor) (CA)
7. Translucent white double-side adhesive tape w/ silvery printing (Inner) (AW) + Black plastic (Flat wire jacket) (BN) w/ Black plastic (Thin wire jacket) (BQ)
8. White sponge (Inner) (AZ) w/ Transparent plastic sheet (Washer) (BB) w/ Yellow dry glue (Inner) (BC)
9. Bright white plastic (Gear, box of gear) (BF) w/ Black plastic sheet w/ white printing (Inner) (BR) w/ Blue-purple plastic (Inner) (BS) w/ Black plastic (Inner) (BT) w/ Transparent lube (BV)
10. Black material on PCB (BU)
11. Black plastic ring (Speaker) (BW) w/ Black plastic sheet (Speaker) (BX) w/ Transparent dry glue (Inner) (BY) w/ Black dry glue (Speaker) (BZ)

- Note:
- ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - % = percentage by weight
 - Results shown as ND are ignored in the sum calculation
 - The result(s) is (are) calculated using the total specimen weight for composite test
 - Materials can be placed in the mouth for toys & childcare articles: Result(s) of specimen No.1-No.6 is(are) extracted from report No. T52110260088SN
 - Materials can not be placed in the mouth for toys & childcare articles or plasticized material in the other article.: Result(s) is(are) extracted from report No. T52110260088SN



European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment including (EU) 2020/2096 – AZO Colourants

Method: With reference to EN ISO 14362-1:2017 / EN ISO 14362-3:2017

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Diode Array Detector (HPLC-DAD)

No.	Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
			1			
			Direct reduction	Colorant extraction		
1.	4-Aminodiphenyl	92-67-1	--	ND	5	30
2.	Benzidine	92-87-5	--	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	--	ND	5	30
4.	2-Naphthylamine	91-59-8	--	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	--	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	--	ND	5	30
7.	4-Chloroaniline	106-47-8	--	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	--	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	--	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	--	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	--	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	--	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	--	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	--	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	--	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	--	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	--	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	--	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	--	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	--	ND	5	30
21.	4-Aminoazobenzene	60-09-3	--	ND	5	30
22.	2-methoxyaniline	90-04-0	--	ND	5	30



No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)	
		Direct reduction	Colorant extraction			
1.	4-Aminodiphenyl	92-67-1	--	ND	5	30
2.	Benzidine	92-87-5	--	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	--	ND	5	30
4.	2-Naphthylamine	91-59-8	--	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	--	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	--	ND	5	30
7.	4-Chloroaniline	106-47-8	--	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	--	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	--	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	--	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	--	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	--	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	--	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	--	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	--	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	--	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	--	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	--	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	--	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	--	ND	5	30
21.	4-Aminoazobenzene	60-09-3	--	ND	5	30
22.	2-methoxyaniline	90-04-0	--	ND	5	30



No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)	
		3				
		Direct reduction	Colorant extraction			
1.	4-Aminodiphenyl	92-67-1	ND	ND	5	30
2.	Benzidine	92-87-5	ND	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	ND	ND	5	30
4.	2-Naphthylamine	91-59-8	ND	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	ND	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	ND	ND	5	30
7.	4-Chloroaniline	106-47-8	ND	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	ND	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	ND	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	ND	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	ND	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	ND	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	ND	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	5	30
21.	4-Aminoazobenzene	60-09-3	ND	ND	5	30
22.	2-methoxyaniline	90-04-0	ND	ND	5	30



No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)	
		4				
		Direct reduction	Colorant extraction			
1.	4-Aminodiphenyl	92-67-1	ND	ND	5	30
2.	Benzidine	92-87-5	ND	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	ND	ND	5	30
4.	2-Naphthylamine	91-59-8	ND	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	ND	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	ND	ND	5	30
7.	4-Chloroaniline	106-47-8	ND	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	ND	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	ND	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	ND	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	ND	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	ND	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	ND	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	5	30
21.	4-Aminoazobenzene	60-09-3	ND	ND	5	30
22.	2-methoxyaniline	90-04-0	ND	ND	5	30



No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)	
		5				
		Direct reduction	Colorant extraction			
1.	4-Aminodiphenyl	92-67-1	ND	ND	5	30
2.	Benzidine	92-87-5	ND	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	ND	ND	5	30
4.	2-Naphthylamine	91-59-8	ND	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	ND	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	ND	ND	5	30
7.	4-Chloroaniline	106-47-8	ND	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	ND	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	ND	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	ND	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	ND	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	ND	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	ND	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	5	30
21.	4-Aminoazobenzene	60-09-3	ND	ND	5	30
22.	2-methoxyaniline	90-04-0	ND	ND	5	30



No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)	
		6				
		Direct reduction	Colorant extraction			
1.	4-Aminodiphenyl	92-67-1	--	ND	5	30
2.	Benzidine	92-87-5	--	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	--	ND	5	30
4.	2-Naphthylamine	91-59-8	--	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	--	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	--	ND	5	30
7.	4-Chloroaniline	106-47-8	--	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	--	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	--	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	--	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	--	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	--	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	--	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	--	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	--	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	--	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	--	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	--	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	--	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	--	ND	5	30
21.	4-Aminoazobenzene	60-09-3	--	ND	5	30
22.	2-methoxyaniline	90-04-0	--	ND	5	30



No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)	
		Direct reduction	Colorant extraction			
1.	4-Aminodiphenyl	92-67-1	--	ND	5	30
2.	Benzidine	92-87-5	--	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	--	ND	5	30
4.	2-Naphthylamine	91-59-8	--	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	--	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	--	ND	5	30
7.	4-Chloroaniline	106-47-8	--	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	--	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	--	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	--	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	--	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	--	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	--	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	--	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	--	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	--	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	--	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	--	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	--	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	--	ND	5	30
21.	4-Aminoazobenzene	60-09-3	--	ND	5	30
22.	2-methoxyaniline	90-04-0	--	ND	5	30



No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)	
		8				
		Direct reduction	Colorant extraction			
1.	4-Aminodiphenyl	92-67-1	--	ND	5	30
2.	Benzidine	92-87-5	--	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	--	ND	5	30
4.	2-Naphthylamine	91-59-8	--	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	--	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	--	ND	5	30
7.	4-Chloroaniline	106-47-8	--	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	--	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	--	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	--	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	--	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	--	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	--	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	--	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	--	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	--	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	--	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	--	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	--	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	--	ND	5	30
21.	4-Aminoazobenzene	60-09-3	--	ND	5	30
22.	2-methoxyaniline	90-04-0	--	ND	5	30



No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
		Direct reduction	Colorant extraction		
1.	4-Aminodiphenyl	92-67-1	ND	5	30
2.	Benzidine	92-87-5	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	ND	5	30
4.	2-Naphthylamine	91-59-8	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	ND	5	30
7.	4-Chloroaniline	106-47-8	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	ND	5	30
21.	4-Aminoazobenzene	60-09-3	ND	5	30
22.	2-methoxyaniline	90-04-0	ND	5	30



No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)	
		10				
		Direct reduction	Colorant extraction			
1.	4-Aminodiphenyl	92-67-1	ND	ND	5	30
2.	Benzidine	92-87-5	ND	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	ND	ND	5	30
4.	2-Naphthylamine	91-59-8	ND	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	ND	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	ND	ND	5	30
7.	4-Chloroaniline	106-47-8	ND	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	ND	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	ND	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	ND	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	ND	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	ND	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	ND	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	5	30
21.	4-Aminoazobenzene	60-09-3	ND	ND	5	30
22.	2-methoxyaniline	90-04-0	ND	ND	5	30



Specimen Description:

1. Red colored series fabric (Mat) (B) + Blue colored series fabric (Mat) (E)
2. Green colored series fabric (Mat) (C) + Black colored series fabric (Mat, pole, accessory) (D)
3. Orange satin ribbon (Mat) (F) w/ Green satin ribbon (Mat) (G) + Dark green satin ribbon (Accessory) (H) + Blue satin ribbon (Mat, accessory) (I)
4. Light cyan woven cord (Connection) w/ light green fabric thread (Body) (J) + Grey-white woven band (Connection) w/ dark blue fabric thread (Body) (K)
5. Red colored series tricot (Accessory) (M) + White satinet w/ black, red, blue, brown printing (Sewn-in label) (L)
6. White tricot w/ black printing (Mat, body) (N) + White tricot w/ light green, green printing (Limb) (P)
7. White tricot w/ multi-color printing (Face) (O) + White tricot w/ dark blue printing (Eye, eyebrow, mouth) (S)
8. White tricot w/ dark green, light blue printing (Body) (Q) + White tricot w/ blue, yellow printing (Body) (R)
9. Light grey fabric (Binding) (T) + Light grey non-woven w/ light grey, dark green fabric thread (Mat) (U)
10. White non-woven w/ bright white fabric thread w/ black printing (Body) (CJ)



- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

Colorant extraction refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 clause 10.1 and relevant clauses.

- -- = Test method is not applicable due to identified specimen nature with respect to method(s).
- EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.
- 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
- In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
- The result(s) is (are) calculated using the total specimen weight for composite test
- Result(s) is(are) extracted from report No. T52110260088SN



European commission directive (EU) 2019/1929 – Formaldehyde

For Polymeric

Method: With reference to EN71-10: 2005 and EN71-11: 2005

Analysis was performed by High Performance Liquid Chromatography with Diode Array Detector (HPLC-DAD) and Gas Chromatography Mass Spectrometer (GC-MS)

Specimen Description	Alias No.	Tracing No.	MDL (mg/L)	Result(s) (mg/L)	Limit (mg/L)
1. Dark orange soft plastic (Star) (A) + Dull dark orange soft plastic (Accessory) (Y) + Green soft plastic (Body) (AD)	15	1	0.8	ND	1.5
2. Transparent plastic film w/ silvery printing w/ white mesh backing (Mat) (V) + Transparent plastic sheet (Mirror) (AB)	15	2	0.8	ND	1.5
3. Dark green plastic (Hook) (W) + Bright dark green plastic (Connection) (X) + Transparent plastic (Accessory) (Z)	15	3	0.8	ND	1.5
4. Dull blue plastic (Mirror) (AA) + Off-white plastic (Hook, connection) (AC) + Pale blue plastic (Switch) (AE)	15	4	0.8	ND	1.5
5. Dark off-white plastic (Box) (AF) w/ Black coating (Eye) (AH) w/ Light blue coating (Pattern) (AI) + Dull off-white plastic (Box) (AG)	15	5	0.8	ND	1.5
6. Transparent plastic sheet (Inner) (AJ) + White foam (Inner) (AQ) + Blue plastic (Flat wire jacket) (AV)	15	6	0.8	ND	1.5
7. Cream-white plastic (Inner) (AK) + White plastic (Box) (AL) + Bright white plastic (Bead) (AM)	15	7	0.8	ND	1.5
8. Translucent white plastic (Plug) (AR) + Cream plastic (Pole) (AS) + Black plastic (Switch) (BD)	15	8	0.8	ND	1.5
9. Translucent white double-side adhesive tape w/ silvery printing (Inner) (AW) + White sponge (Inner) (AZ) + Black dry glue (Speaker) (BZ)	15	9	0.8	ND	1.5
10. Transparent plastic sheet (Washer) (BB) + Yellow dry glue (Inner) (BC) + Black foam w/ adhesive (Inner) (BE)	15	10	0.8	ND	1.5
11. Bright white plastic (Gear, box of gear) (BF) + Light cream plastic (Gear) (BG) + Transparent plastic (LED) (BH)	15	11	0.8	ND	1.5



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Shenzhen Branch Testing Center Handlines

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Specimen Description	Alias No.	Tracing No.	MDL (mg/L)	Result(s) (mg/L)	Limit (mg/L)
12. White plastic (Wire jacket) (BI) + Yellow plastic (Wire jacket) (BJ) + Black plastic (Wire jacket) (BK)	15	12	0.8	ND	1.5
13. Red plastic (Wire jacket) (BL) + Green plastic (Flat wire jacket) (BM) + Black plastic (Flat wire jacket) (BN)	15	13	0.8	ND	1.5
14. Light orange plastic (Flat wire jacket) (BO) + Dark red plastic (Thin wire jacket) (BP) + Black plastic (Thin wire jacket) (BQ)	15	14	0.8	ND	1.5
15. Black plastic sheet w/ white printing (Inner) (BR) + Blue-purple plastic (Inner) (BS) + Black plastic (Inner) (BT)	15	15	0.8	ND	1.5
16. Black material on PCB (BU)	15	16	0.8	ND	1.5
17. Black plastic ring (Speaker) (BW) + Black plastic sheet (Speaker) (BX) + Transparent dry glue (Inner) (BY)	15	17	0.8	ND	1.5
18. Dull dark orange soft plastic (Star) (CI)	15	18	0.8	ND	1.5

- Note:
- mg/L = milligram per liter
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - The result(s) is (are) calculated using the total specimen surface area for composite test.
 - Result(s) of specimen No.1-No.17 is(are) extracted from report No. T52110260088SN



For Textiles

Method: With reference to ISO 14184-1: 2011, Textiles- Determination of formaldehyde - Part 1: Free and Hydrolyzed formaldehyde (water extraction method)

Analysis was performed by Ultraviolet Visible Spectrometer (UV-Vis)

Specimen Description	MDL (mg/kg)	Result(s) (mg/kg)	Limit (mg/kg)	Client's Limit (mg/kg)
1. Orange satin ribbon (Mat) (F) w/ Green satin ribbon (Mat) (G)	10	ND	30	16
2. Dark green satin ribbon (Accessory) (H)	10	ND	30	16
3. Blue satin ribbon (Mat, accessory) (I)	10	ND	30	16
4. Light cyan woven cord (Connection) w/ light green fabric thread (Body) (J)	10	ND	30	16
5. Grey-white woven band (Connection) w/ white, dark blue fabric thread (Body) (K)	10	ND	30	16
6. White satin w/ black, red, blue, brown printing (Sewn-in label) (L)	10	ND	30	16
7. Light grey fabric (Binding) (T)	10	ND	30	16
8. Light grey non-woven w/ light grey, dark green fabric thread (Mat) (U)	10	ND	30	16
9. White tricot w/ multi-color printing (Accessory, body, face, limb, eye, mouth, eyebrow, mat) (AU)	10	ND	30	16
10. White fabric w/ multi-color printing (Mat, accessory) (AT)	10	ND	30	16
11. White non-woven w/ bright white fabric thread w/ black printing (Body) (CJ)	10	ND	30	16

Specimen Description	MDL (mg/kg)	Result(s) (mg/kg)	Limit (mg/kg)
1. White fabric (Inner) (AO) + White woven band (Binding) w/ light blue, red fabric thread (Body) (AP)	10	ND	30
2. White tricot (Inner) (AY) w/ Bright white mesh (Inner) (BA)	10	ND	30
3. Off-white polyfiber (Inner) (AN) + White polyfiber (Inner) (AX)	10	ND	30

- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - The result(s) is (are) calculated using the total specimen weight for composite test.
 - Result(s) is(are) extracted from report No. T52110260088SN.



EN IEC 62115:2020 ELECTRIC TOYS – SAFETY SPECIFICATION REQUIREMENTS & TEST RESULTS
EN IEC 62115:2020/A11:2020 SPECIFICATION REQUIREMENTS & TEST RESULTS

Clause	Assessment
1. Scope	--
2. Normative references	--
3. Terms and Definitions	--
4. General requirement	--
5. General conditions for the tests	--
6. Criteria for reduced testing	--
7. Marking and instructions	Pass
(Remark: According to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold. Only English version was reviewed in this report.)	
8. Power input	N/A
9. Heating and abnormal operation	Pass
10. Electric strength	Pass
11. Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	N/A
12. Mechanical strength	Pass
13. Construction	Pass
14. Protection of cords and wires	Pass
15. Components	Pass
16. Screws and connections	Pass
17. Creepage distances and clearances	Pass
18. Resistance to heat and fire	Pass
19. Emission from electric toys incorporating lasers and or light emitting diodes or UV emitting lamps	Pass
Toxicological hazards shall comply with EN 71 series of standards	--
(Remark: It is the manufacturer's responsibility to ensure the toy does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.)	
Modulated accessible emission	Pass
-Tested flashing frequency less than 4 Hz or more than 60 Hz	
Toys with an integrated field source shall comply with Annex I	N/A
(Remark: The submitted sample did not incorporate part which consuming a current more than 3A.)	

N/A = Not Applicable



Detail of Radiation, and similar hazards

Electric toys incorporating lasers and or LED or UV emitting lamps comply with requirement.

Part under test	Emission wavelength range	Peak emission wavelength	Measure distance	Measured emission	Emission limit
Blue LED	400-780 nm	460.4 nm	200 mm	0.0008 W/sr	0.04 W/sr
Green LED	400-780 nm	530.2 nm	200 mm	0.0005 W/sr	0.04 W/sr
Orange LED	400-780 nm	603.4 nm	200 mm	0.0002 W/sr	0.04 W/sr

Note: About requirements in Directive 2009/48/EC

According to 2009/48/EC, name and address of manufacturer and importer, and product identification shall be indicated on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy.

France Act 2012-1442 of 24 Dec 2012 - Bisphenol A (BPA) Content

Method: Solvent extraction.

Analysis was performed by Triple Quadrupole Liquid Chromatograph Mass Spectrometer (LC-MS/MS)

For plastic / coating

Test Item(s)	Result (s) (mg/kg)	MDL (mg/kg)	Recommended Limit (mg/kg)
Specimen No.	1		
Alias No.	13		
Tracing No.	1		
Bisphenol A (BPA)	ND	0.1	0.1

Specimen Description:

1. Dull dark orange soft plastic (Star) (CI)

- Note:
- mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)



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Polycyclic Aromatic Hydrocarbon (PAHs) Content

Method: With reference to AfPS GS 2019:01 PAK method.

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Category 1: Materials intended to be placed in the mouth or materials coming into long-term contact with skin (More than 30s) during the intended use – In toys according to Directive 2019/48/EC or for the use by children up to 3 years of age

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
		1	2	3		
Specimen No.	--	1	2	3		
Alias No.	--	12	12	12		
Tracing No.	--	1	2	3		
1. Naphthalene	91-20-3	ND	ND	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	ND	0.1	0.2
Sum of 7 PAHs^	--	ND	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	ND	--	1



Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
		4	5	6		
Specimen No.	--	4	5	6		
Alias No.	--	12	12	12		
Tracing No.	--	4	5	6		
1. Naphthalene	91-20-3	ND	ND	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	ND	0.1	0.2
Sum of 7 PAHs [^]	--	ND	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	ND	--	1



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Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
		7	8	9		
Specimen No.	--	7	8	9		
Alias No.	--	12	12	12		
Tracing No.	--	7	8	9		
1. Naphthalene	91-20-3	ND	0.2	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	ND	0.1	0.2
Sum of 7 PAHs [^]	--	ND	ND	ND	--	1
Sum of 18 PAHs	--	ND	0.2	ND	--	1



Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
		10	11	12		
Specimen No.	--	10	11	12		
Alias No.	--	12	12	12		
Tracing No.	--	10	11	12		
1. Naphthalene	91-20-3	ND	ND	0.2	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	ND	0.1	0.2
Sum of 7 PAHs [^]	--	ND	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	0.2	--	1



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Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
		13	14	15		
Specimen No.	--	13	14	15		
Alias No.	--	12	12	12		
Tracing No.	--	13	14	15		
1. Naphthalene	91-20-3	ND	ND	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	ND	0.1	0.2
Sum of 7 PAHs [^]	--	ND	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	ND	--	1



Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
		16	17	18		
Specimen No.	--	16	17	18		
Alias No.	--	12	12	12		
Tracing No.	--	16	17	18		
1. Naphthalene	91-20-3	ND	ND	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	ND	0.1	0.2
Sum of 7 PAHs [^]	--	ND	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	ND	--	1



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Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
		19	20	21		
Specimen No.	--	19	20	21		
Alias No.	--	12	12	12		
Tracing No.	--	19	20	21		
1. Naphthalene	91-20-3	ND	ND	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	ND	0.1	0.2
Sum of 7 PAHs [^]	--	ND	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	ND	--	1



Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	--	22	23		
Alias No.	--	12	12		
Tracing No.	--	22	23		
1. Naphthalene	91-20-3	ND	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	0.1	0.2
Sum of 7 PAHs [^]	--	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	--	1



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Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	--	24	25		
Alias No.	--	12	12		
Tracing No.	--	25	26		
1. Naphthalene	91-20-3	0.7	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	0.1	--
5. Phenanthrene	85-01-8	0.2	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	0.1	0.2
Sum of 7 PAHs [^]	--	0.2	ND	--	1
Sum of 18 PAHs	--	0.9	ND	--	1

Specimen Description:

1. Orange satin ribbon (Mat) (F)
2. Green satin ribbon (Mat) (G)
3. Dark green satin ribbon (Accessory) (H)
4. Blue satin ribbon (Mat, accessory) (I)
5. Light cyan woven cord (Connection) w/ light green fabric thread (Body) (J)
6. Grey-white woven band (Connection) w/ white, dark blue fabric thread (Body) (K)
7. White satinet w/ black, red, blue, brown printing (Sewn-in label) (L)
8. Light grey fabric (Binding) (T)
9. Light grey non-woven w/ light grey, dark green fabric thread (Mat) (U)
10. Transparent plastic film w/ silvery printing w/ white mesh backing (Mat) (V)



Specimen Description:

11. Dark green plastic (Hook) (W)
12. Bright dark green plastic (Connection) (X)
13. Dull dark orange soft plastic (Accessory) (Y)
14. Transparent plastic (Accessory) (Z)
15. Dull blue plastic (Mirror) (AA)
16. Transparent plastic sheet (Mirror) (AB)
17. Off-white plastic (Hook, connection) (AC)
18. Green soft plastic (Body) (AD)
19. Pale blue plastic (Switch) (AE)
20. Dark off-white plastic (Box) (AF)
21. Dull off-white plastic (Box) (AG)
22. White tricot w/ multi-color printing (Accessory, body, face, limb, eye, mouth, eyebrow, mat) (AU)
23. White fabric w/ multi-color printing (Mat, accessory) (AT)
24. White non-woven w/ bright white fabric thread w/ black printing (Body) (CJ)
25. Dull dark orange soft plastic (Star) (CI)

- Note:
- ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - mg/kg = milligram per kilogram
 - ^7 PAHs including Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene & Pyrene
 - Results shown as ND are ignored in the sum calculation
 - Result(s) of specimen No.1-No.24 is(are) extracted from report No. T52110260088SN

Remark: As received, below test portion(s) is(are) less than 50 mg, therefore such component(s) was(were) not tested for PAHs, as specified in AfPS GS 2019:01 PAK method.
Black coating (Eye) (AH), Light blue coating (Pattern) (AI)



Phthalates Content

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s) Specimen No.	CAS No.	Result(s) (%)			MDL (%)	Client's Limit (%)
		1	2	3		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	--
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	ND	0.003	0.1
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND	0.003	0.1
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010	0.1
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025	0.1
Total (DBP+BBP+DEHP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1



Test Item(s) Specimen No.	CAS No.	Result(s) (%)			MDL (%)	Client's Limit (%)
		4	5	6		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	--
Di-(2-ethyl hexyl) phthalate (DEHP) / Diocetyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	ND	0.003	0.1
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND	0.003	0.1
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010	0.1
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025	0.1
Total (DBP+BBP+DEHP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1



Test Item(s) Specimen No.	CAS No.	Result(s) (%)			MDL (%)	Client's Limit (%)
		7	8	9		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	--
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	0.021	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	ND	0.003	0.1
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND	0.003	0.1
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010	0.1
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025	0.1
Total (DBP+BBP+DEHP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		0.021	ND	ND	--	0.1



Test Item(s) Specimen No.	CAS No.	Result(s) (%)			MDL (%)	Client's Limit (%)
		10	11	12		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	--
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	ND	0.003	0.1
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND	0.003	0.1
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010	0.1
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025	0.1
Total (DBP+BBP+DEHP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1



Test Item(s) Specimen No.	CAS No.	Result(s) (%)			MDL (%)	Client's Limit (%)
		13	14	15		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	--
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	ND	0.003	0.1
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND	0.003	0.1
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010	0.1
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025	0.1
Total (DBP+BBP+DEHP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1



Test Item(s) Specimen No.	CAS No.	Result(s) (%)			MDL (%)	Client's Limit (%)
		16	17	18		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	--
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	ND	0.003	0.1
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND	0.003	0.1
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010	0.1
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025	0.1
Total (DBP+BBP+DEHP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1



Specimen Description:

1. Dark orange soft plastic (Star) (A) + Dull dark orange soft plastic (Accessory) (Y) + Green soft plastic (Body) (AD)
2. Transparent plastic film w/ silvery printing w/ white mesh backing (Mat) (V) + Transparent plastic sheet (Mirror) (AB)
3. Dark green plastic (Hook) (W) + Bright dark green plastic (Connection) (X) + Transparent plastic (Accessory) (Z)
4. Dull blue plastic (Mirror) (AA) + Off-white plastic (Hook, connection) (AC) + Pale blue plastic (Switch) (AE)
5. Dark off-white plastic (Box) (AF) + Dull off-white plastic (Box) (AG)
6. Transparent plastic sheet (Inner) (AJ) w/ Black foam w/ adhesive (Inner) (BE) w/ White plastic (Wire jacket) (BI) w/ Yellow plastic (Wire jacket) (BJ)
7. White foam (Inner) (AQ) w/ Black plastic (Wire jacket) (BK) w/ Red plastic (Wire jacket) (BL) w/ Green plastic (Flat wire jacket) (BM)
8. Blue plastic (Flat wire jacket) (AV) w/ Light orange plastic (Flat wire jacket) (BO) w/ Dark red plastic (Thin wire jacket) (BP)
9. Cream-white plastic (Inner) (AK) + White plastic (Box) (AL) + Bright white plastic (Bead) (AM)
10. Translucent white plastic (Plug) (AR) + Light cream plastic (Gear) (BG) + Transparent plastic (LED) (BH)
11. Cream plastic (Pole) (AS) + Black plastic (Switch) (BD) + Dull cream plastic (Motor) (CA)
12. Translucent white double-side adhesive tape w/ silvery printing (Inner) (AW) + Black plastic (Flat wire jacket) (BN) w/ Black plastic (Thin wire jacket) (BQ)
13. White sponge (Inner) (AZ) w/ Transparent plastic sheet (Washer) (BB) w/ Yellow dry glue (Inner) (BC)
14. Bright white plastic (Gear, box of gear) (BF) w/ Black plastic sheet w/ white printing (Inner) (BR) w/ Blue-purple plastic (Inner) (BS) w/ Black plastic (Inner) (BT) w/ Transparent lube (BV)
15. Black material on PCB (BU)
16. Black plastic ring (Speaker) (BW) w/ Black plastic sheet (Speaker) (BX) w/ Transparent dry glue (Inner) (BY) w/ Black dry glue (Speaker) (BZ)
17. Black coating (Eye) (AH) + Light blue coating (Pattern) (AI)
18. Dull dark orange soft plastic (Star) (CI)



- Note:
- MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - % = percentage by weight
 - Results shown as ND are ignored in the sum calculation
 - The result(s) is (are) calculated using the total specimen weight for composite test
 - ^ = a mixture of i) Di-n-pentyl phthalate (DPP); ii) N-pentyl-isopentylphthalate (nPiPP) and iii) Diisopentyl phthalate (DiPP)
 - Result(s) of specimen No.1-No.17 is(are) extracted from report No. T52110260088SN.

EN71-12:2016-N-nitrosamines and N-nitrosatable substances

Test Method : With reference to EN71-12:2016, analysis was performed by LC-MS/MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
N-Nitrosamines	0.010	mg/kg	0.010	ND
Comment				PASS
N-Nitrosatable substances	0.10	mg/kg	0.10	ND
Comment				PASS

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-109126.001	Dull dark orange soft plastic (Star)(CI)

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated
- (5) The test was conducted by SGS-CSTC Guangzhou Lab, The decision rule of this test item is based on the Binary Statement for Simple Acceptance Rule (w=0) in ILAC-G8:09/2019 Clause 4.2.1



Notes :

N-Nitrosamines tested : N-nitrosodiethanolamine (NDELA),N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), N-nitrosodipropylamine (NDPA), N-nitrosodibutylamine (NDBA), N-nitrosopiperidine (NPIP), N-nitrosomorpholine (NMOR), N-nitrosodibenzylamine (NDBzA), N-nitroso-N-methyl-N-phenylamine (NMPHA), N-nitroso-N-ethyl-N-phenylamine (NEPhA), N-nitrosodiisononylamine (NDiNA), N-nitrosodiisopropylamine (NDiPA) and N-Nitrosodiisobutylamine (NDiBA).

Colour Fastness to Rubbing

I. (EN ISO 105-X12:2016; Size of rubbing finger: 16mm diameter)

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>
Dry staining	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Wet staining	4-5	4-5	4-5	4-5	4-5	4-5	4-5

	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>
Dry staining	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Wet staining	4-5	4-5	4-5	4-5	4-5	4-5	4-5

II. (EN ISO 105-X12:2016; Size of rubbing finger: 19x25.4mm)

	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>
Dry staining	4-5	4-5	4-5	4-5	4-5	4-5
Wet staining	4-5	4-5	4-5	4-5	4-5	4-5

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good. Result(s) is(are) extracted from report No. T52110260088SN.



Specimen Description:

1. Orange ribbon
2. Green ribbon
3. Dark green ribbon
4. Blue ribbon
5. Light cyan cord
6. Grey-white woven band
7. White woven fabric with multi-color printing
8. Transparent plastic film with silvery printing & white mesh backing
9. White woven fabric with black printing
10. Light grey non-woven
11. Light grey woven fabric
12. White woven fabric with grey printing
13. White woven fabric with light blue, blue and dark blue printing
14. White non-woven with black printing
15. White tricot with black printing
16. White tricot with red and dark red printing
17. White tricot with multi-color printing(O)
18. White tricot with multi-color printing(P)
19. White tricot with multi-color printing(Q)
20. White tricot with multi-color printing(R)

N.B. : - Only applicable clauses were shown.

Remark:

1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band [$T_U - U_{95}$, $T_U + U_{95}$]

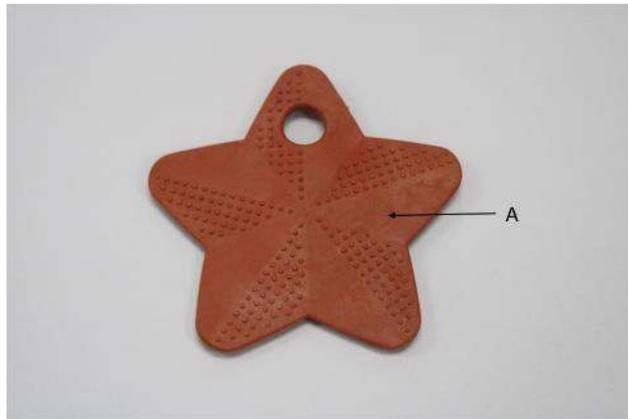
For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band [$T_L - U_{95}$, $T_L + U_{95}$]







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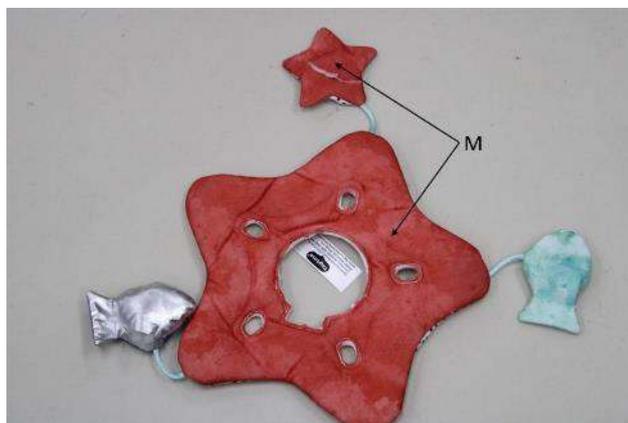




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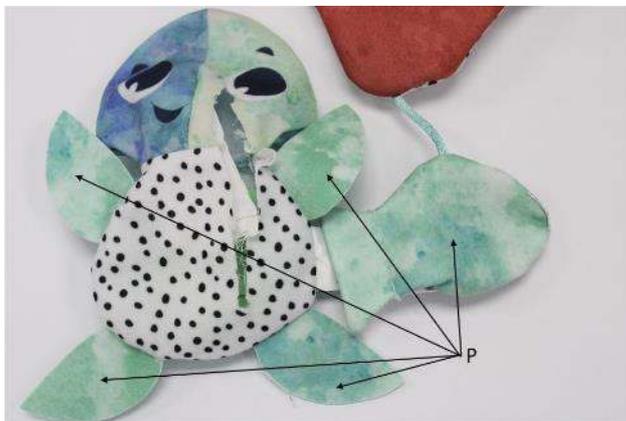


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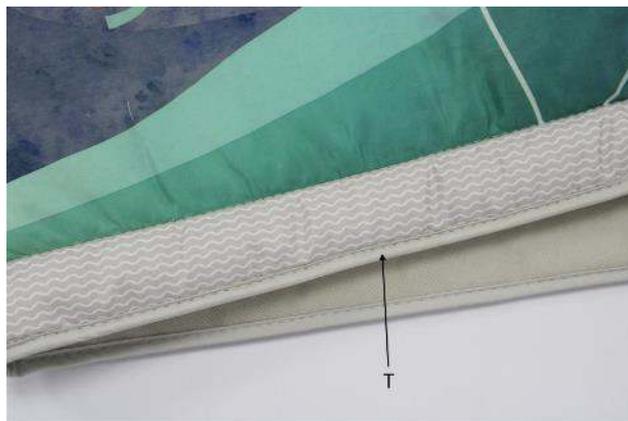


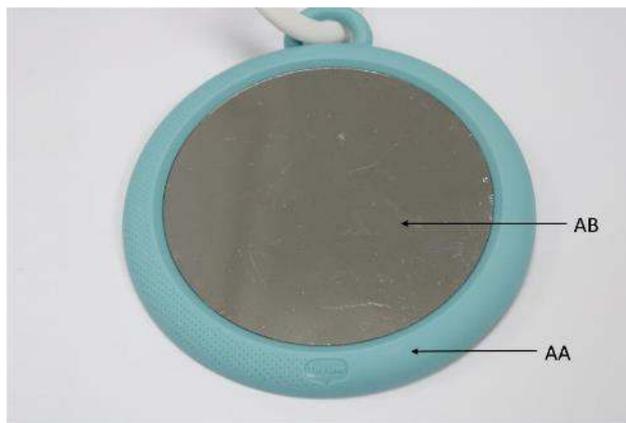


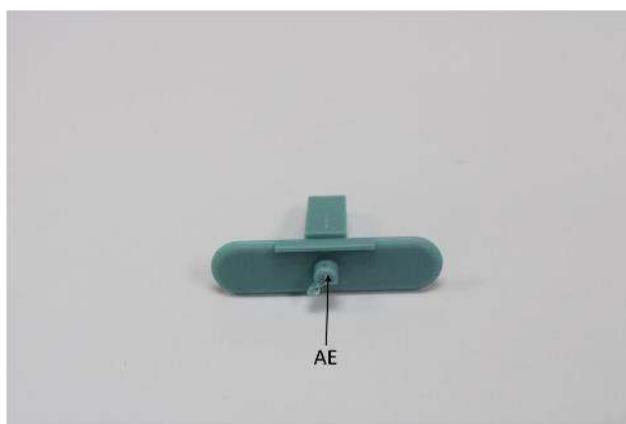
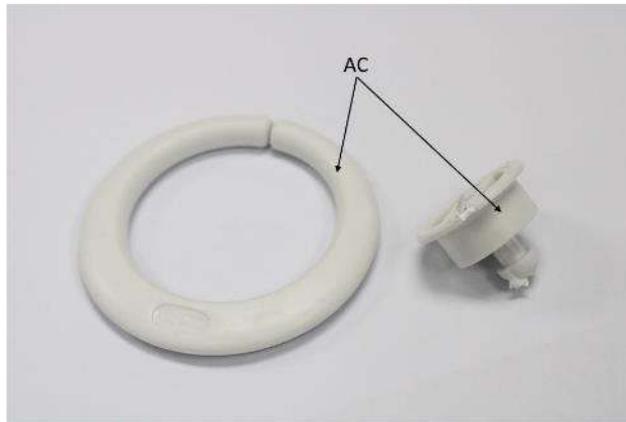
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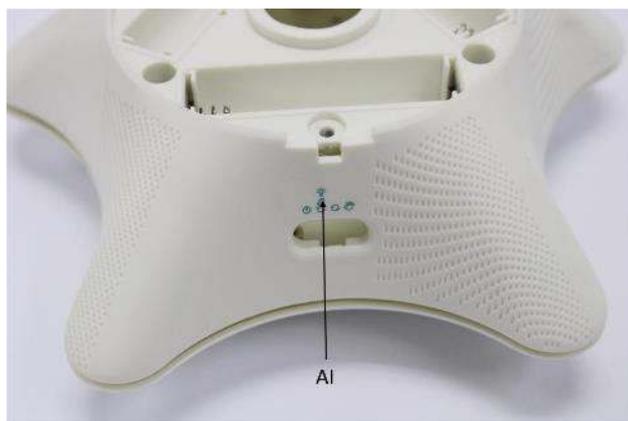
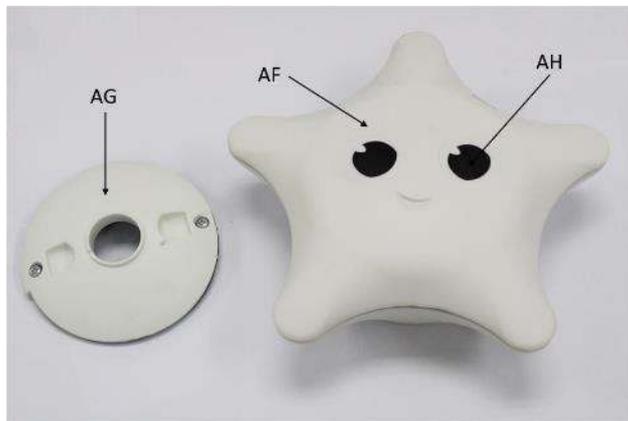
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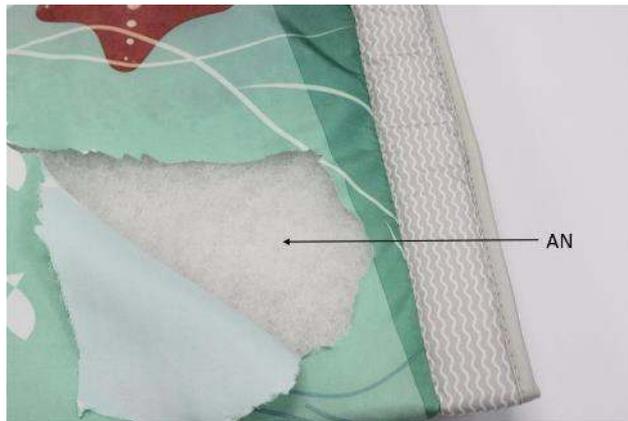
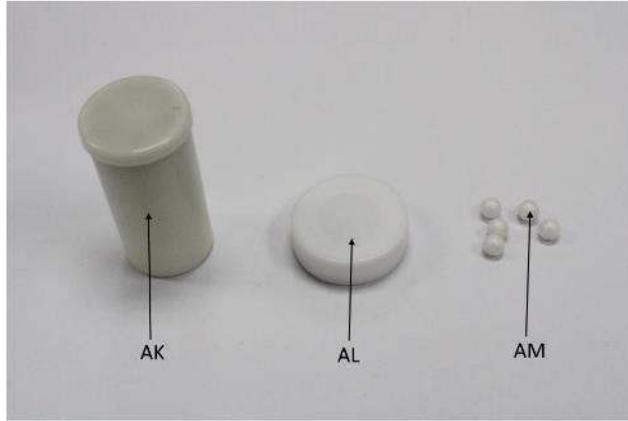




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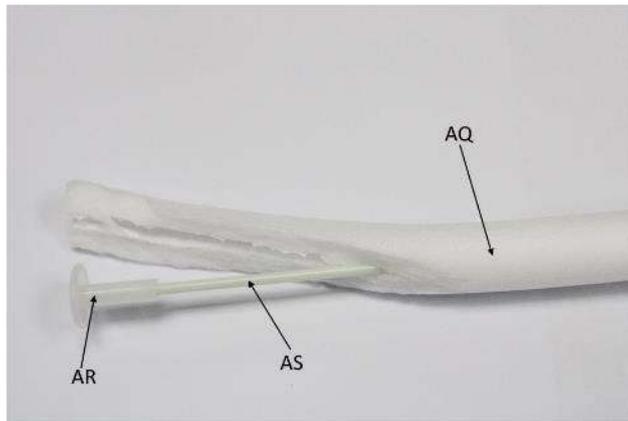
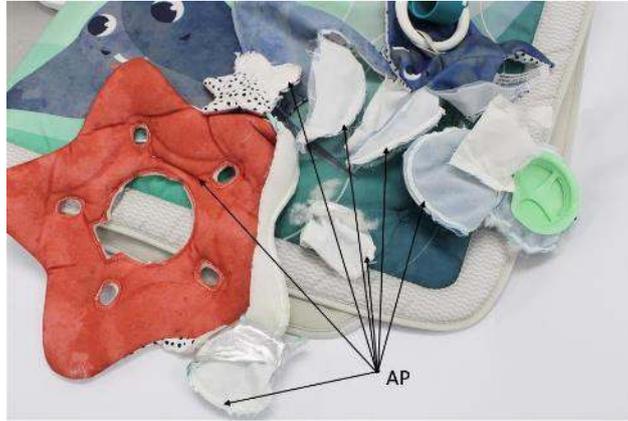


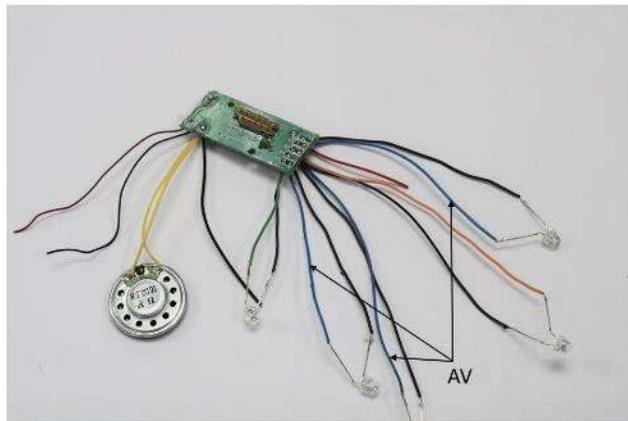
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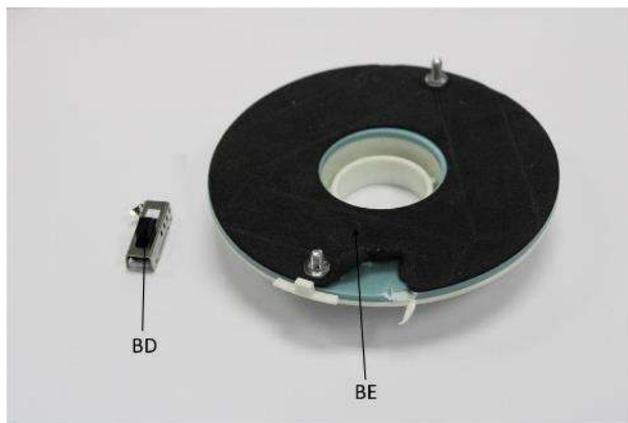
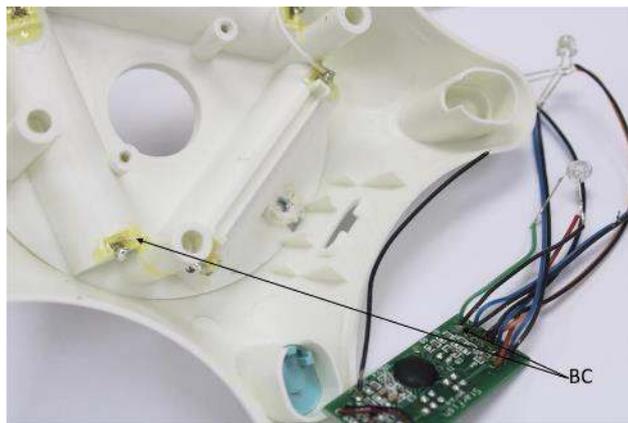
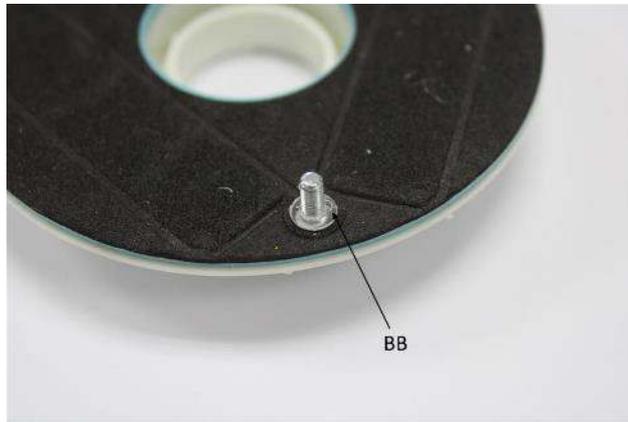


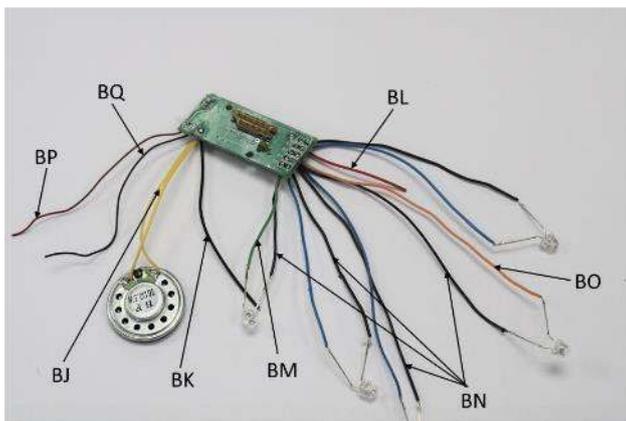
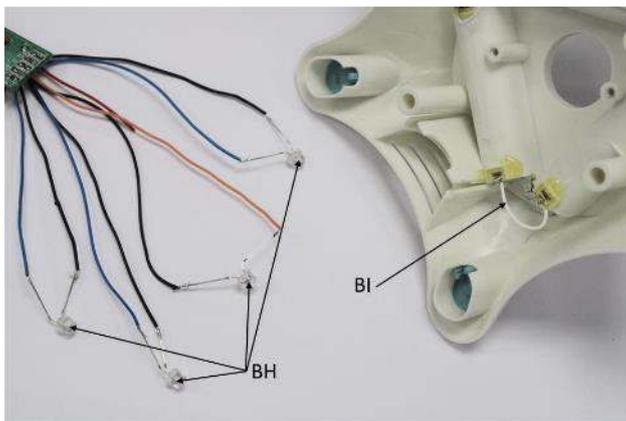
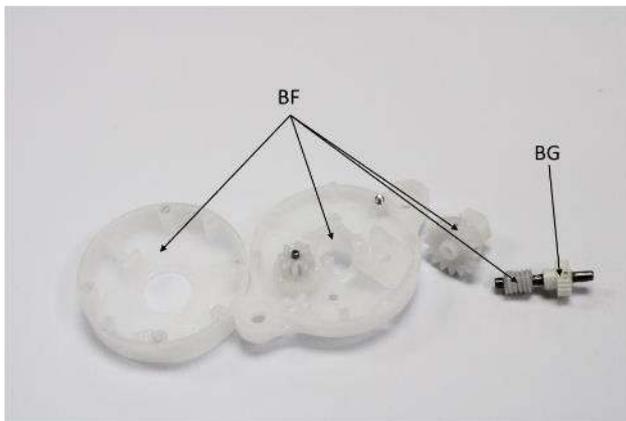


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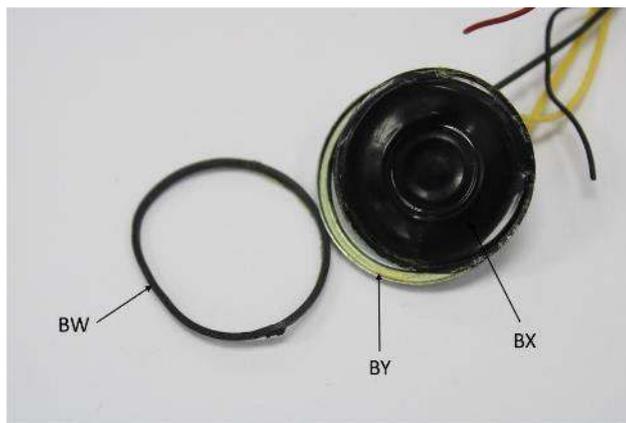
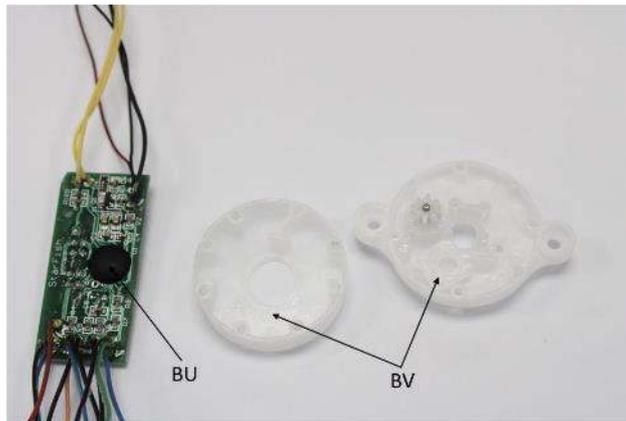
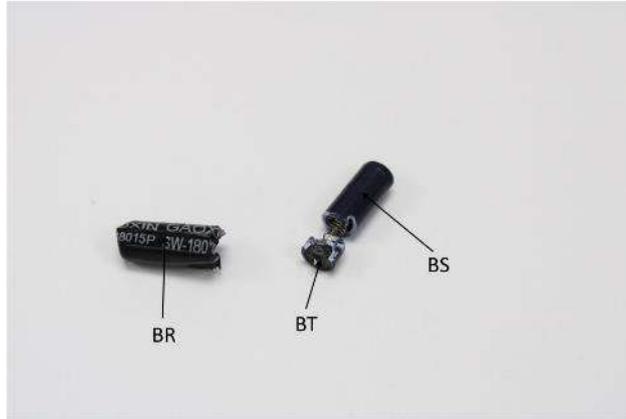




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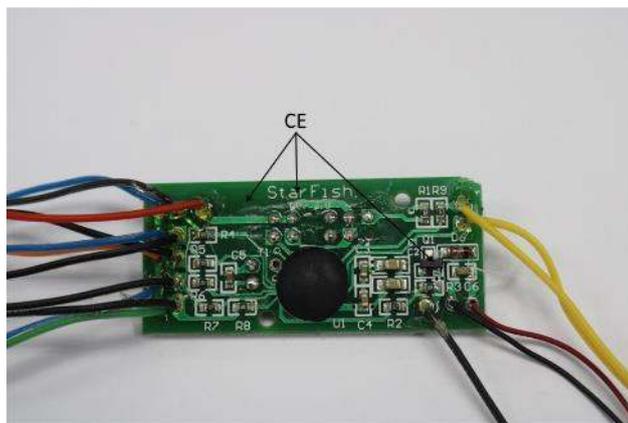
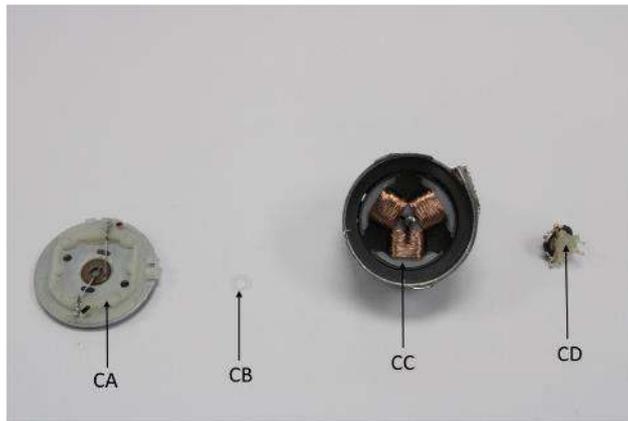
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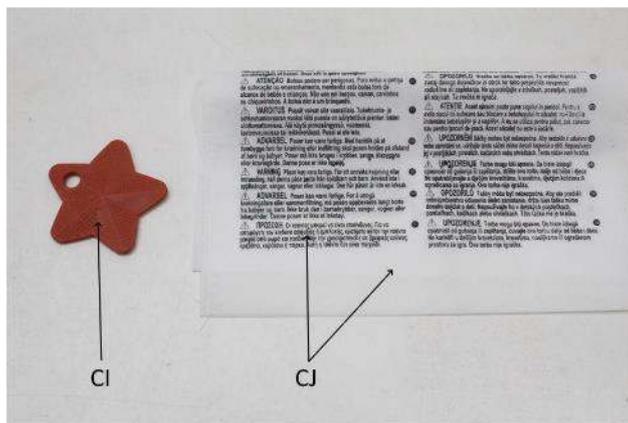
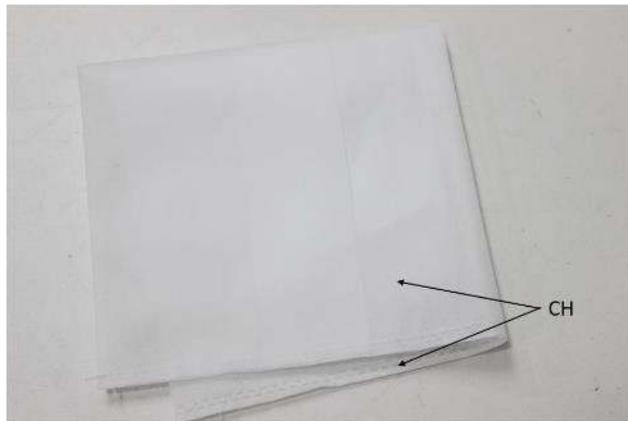
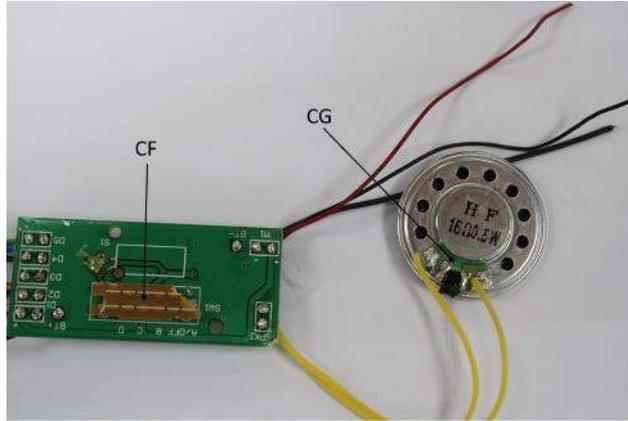


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