

Test Report No.: 68.452.18.02596.01A

Dated: 2019-01-09



Applicant : RoRo ehf
Auðbrekka 10A, 3rd floor, 200 Kópavogur, Iceland

Attention : Ms. Eyrún Eggertsdóttir

Sample Description : Lulla Sky; Lulla Coral; Lulla Lilac

Model No. : RO001-2; RO003-2, RO004-2

Buyer : Roro

Country of Origin : China

Exported to : EU, US & Australia

Test Sample Receipt Date, Location : 2018-09-25, 2018-11-08, 2018-12-18, 2018-12-27, Shenzhen

Test Period, Location : From 2018-09-25 to 2019-01-08, Shenzhen

Test Result(s) : Refer to Section 3

Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
1.	EN71-1:2014 +A1:2018 - Mechanical and Physical Properties	Pass
2.	EN71-2:2011+A1:2014 - Flammability	Pass
3.	EN71-3:2013+A3:2018 - Migration of Certain Elements	Pass
4.	Azodyes Regulation (EC) No. 1907/2006, Annex XVII, Entry 43 and its amendment Regulation (EC) No. 552/2009	Pass
5.	Cadmium & Mercury in Battery Directive 2013/56/EU Amending Directive 2006/66/EC	Pass
6.	Total Lead Content in Battery	Report As Is
7.	Polycyclic Aromatic Hydrocarbons (PAHs) Test according to German Committee on Product Safety (AfPS) AfPS GS 2014:01 PAK Solvent extraction followed by GC-MS analysis	Pass



No.	Test Item(s)	Conclusion
8.	Polycyclic Aromatic Hydrocarbons (PAHs) Regulation (EC) No.1907/2006 and its amendment (EU) No. 1272/2013 Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 50	Pass
9.	Phthalates Regulation (EC) No.1907/2006 and its amendment Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 51 and 52.	Pass
10.	Short-Chain Chlorinated Paraffins (SCCP) Test POPs Regulation (EC) No. 2015/2030	Pass
11.	Total Cadmium Regulation (EU) 2016/217, amending Annex XVII to Regulation (EC) No. 1907/2006 Entry 23.	Pass
12.	Dimethylfumarate (DMFu) Regulation (EC) No. 1907/2006, Annex XVII, Entry 61 and its amendment Regulation (EU) No. 412/2012	Pass
13.	Flame Retardants (TCEP, TCPP, TDCP) Directive 2014/79/EU	Pass
14.	Marking requirement Test in accordance with 2012/19/EU - on waste electrical and electronic equipment (WEEE)	Pass
15.	Heavy metals - Packaging and packaging waste (Article 11 of 94/62/EC and 2005/20/EC)	Pass

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) Test sample was specified by the applicant.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group

Prepared by:

Reviewed by:



Eva Liang
Senior Project Coordinator

Marlon Zeng
Section Manager

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Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

No extract, abridgment or abstraction from a test report may be published or used to advertise a product without the written consent of the Director of TÜV SUD Certification and Testing (China) Co., Ltd. Shenzhen Branch. The results contained herein apply only to the particular sample tested and to the specific test carried out and not to samples of the current production line.



Laboratory:
TÜV SÜD Certification and
Testing (China) Co., Ltd.
Shenzhen Branch



Phone : +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: toys_hardline@tuv-sud.hk
Web : <http://www.tuv-sud.cn>


Regd. Office:
TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, 518052, P. R. China






1. Description of the Test Sample:

Sample Description	Lulla Sky; Lulla Coral; Lulla Lilac
	
	
	

2. List of Materials as identified by the Laboratory:



T. No.	Sample No.	Colour and Description	Photograph
T1	001	Lulla Sky with batteries box - RO001-2 (Whole product)	
T2	002	Lulla Coral with batteries box - RO003-2 (Whole product)	

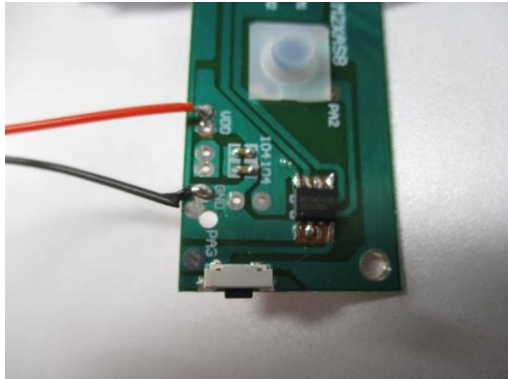


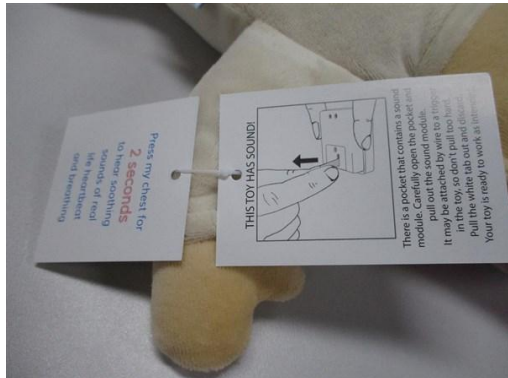
T. No.	Sample No.	Colour and Description	Photograph
T3	003	Lulla Lilac with batteries box - RO004-2 (Whole product)	
T4	004	White plastic (Music box)	
T5	005	Blue coating (Words on music box)	
T6	006	Deep pink coating (Words on music box)	
T7	014	Black soft plastic (Wire jacket inner box)	
T8	015	Red soft plastic (Wire jacket inner box)	



T. No.	Sample No.	Colour and Description	Photograph
T9	017	Translucent hot melt glue (Inner box)	
T10	019	Brown PCB w/ green / white printing (PCB inner box)	
T11	020	Translucent / black soft plastic (Button on PCB)	
T12	023	Black material w/ brown printing (IC on PCB)	
T13	031	Brown PCB w/ green printing (PCB on speaker)	
T14	032	Green plastic w/ black soft plastic (Speaker)	
T15	034	Black plastic (Diaphragm of speaker)	



T. No.	Sample No.	Colour and Description	Photograph
T16	036	Blue plush (Hair of doll)	
T17	037	Flesh plush (Face & hand of doll)	
T18	038	Blue embroidery (Eyes & eyebrow)	
T19	039	Hot pink embroidery (Mouth & heart)	
T20	040	Beige plush (Body & limbs of doll)	
T21	041	White / pink / blue knitted fabric (Small label)	
T22	042	Black printed shiny white fabric (Sewn label)	
T23	043	Translucent plastic (Hook of velcro)	
T24	044	White fabric (Loop of velcro & inner body)	
T25	045	Off white fabric (Belt of velcro)	
T26	046	White net fabric (Bag inner body)	
T27	047	Translucent white plastic (Beads inner bag)	

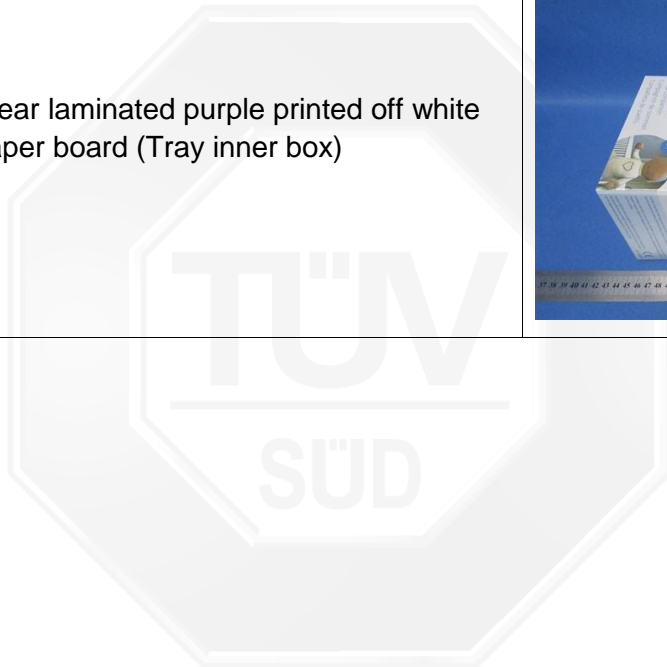
T. No.	Sample No.	Colour and Description	Photograph
T28	048	White fiber (Stuffing inner body)	
T29	049	Beige fabric w/ blue / fuchsia printing (Bag of doll)	
T30	050	Beige rope (Rope of bag)	
T31	051	Flesh plush w/ blue / hot pink embroidery (Face & hand of doll)	
T32	052	Pink plush (Hair of doll)	
T33	053	Light blue embroidery (Eyes & eyebrow of doll)	
T34	054	Light flesh plush (Face & hand of doll)	
T35	055	Beige fabric w/ pink printing (Bag of doll)	
T36	056	Light flesh plush w/ Light blue embroidery (Face & hand of doll)	

T. No.	Sample No.	Colour and Description	Photograph
T37	057	Light purple plush (Hair of doll)	
T38	058	Brown plush (Face & hand of doll)	
T39	059	Purple embroidery (Eyes & eyebrow of doll)	
T40	060	Brown plush w/ purple embroidery (Face & hand of doll)	
T41	061	Beige fabric w/ purple printing (Bag of doll)	
T42	062	White plastic w/ blue / deep pink coating (Music box)	

T. No.	Sample No.	Colour and Description	Photograph
T43	063	Black / off white plastic (Button on side of PCB)	
T44	064	Brown PCB w/ green / white printing (PCB inner box) w/ Brown material (Capacitor on PCB) w/ Black material w/ brown printing (IC on PCB)	
T45	066	Battery	
T46	070	Dull red / blue / black coating (Tag of doll)	
T47	071	White paper (Tag of doll)	
T48	072	White plastic (Holder of tag)	

T. No.	Sample No.	Colour and Description	Photograph
T49	073	Clear plastic (Insulation sheet on batteries case)	
T50	074	Black coating (Insulation sheet on batteries case)	
T51	075	Black printed white paper (Manual)	
T52	076	Clear PVC (Window on box)	
T53	077	Transparent / golden coating (On pattern of box)	
T54	078	Clear laminated multicolor printed white paper w/ brown paper board (Box)	
T55	079	Clear laminated pink printed off white paper board (Tray inner box)	

T. No.	Sample No.	Colour and Description	Photograph
T56	080	Clear laminated blue printed off white paper board (Tray inner box)	
T57	081	Clear laminated purple printed off white paper board (Tray inner box)	





3. Test Results

Sample:	001, 002, 003
Packaging Provided:	Yes
Labelled Age Grading:	0+
Appropriate Age Grading:	All ages
Applicant's requested Age Grading:	All ages
Age Grading for Testing:	All ages

3.1 Mechanical and Physical Properties

Test in accordance with EN71-1:2014+A1:2018

Sample 001, 002, 003		
Clause	Title/ Description	Remark*
4	General Requirements	
4.1	Material cleanliness	C
4.4	Toy bags	C
4.7	Edges	C
4.8	Points and metallic wires	C
4.20	Acoustics	C
5	Toys intended for children under 36 months	
5.1	General requirements	C
5.2	Soft-filled toys and soft-filled parts of a toy	C
5.4	Cords, chains and electrical cables in toys	C
5.8	Shape and size of certain toys	C
7	Warnings, markings and instructions for use #	
7.1	General	C

* Abbreviation:

C = Complied

Note:

- Only applicable clauses were shown
- # = The attention of the applicant was drawn to the need for, as per Directive 2009/48/EC, the following marking which shall be fulfilled.
 - The CE marking shall be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging, in counter display which shall be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008.
 - The manufacturer's name and address, importer's name and address in EEC shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
 - The toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.



3.2 Flammability

Test in accordance with EN 71 - 2 : 2011 + A1 : 2014

Sample 001, 002, 003		
Clause	Title/ Description	Remark*
4.1	General	C
4.5	Soft filled toys	C

* Abbreviation:

C = Complied

Note:

- Only applicable clauses were shown



3.3 Migration of certain elements

With reference to Directive 2009/48/EC and its amendment Directive (EU) 2017/738 on the Safety of Toys

Sample preparation according to EN 71-3 : 2013 + A3 : 2018 Migration of certain elements.

As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 004	Sample 005*	Sample 006*	Category 3
Soluble Aluminum	<5.00	NA	NA	70000
Soluble Antimony	<5.00	NA	NA	560
Soluble Arsenic	<2.50	NA	NA	47
Soluble Barium	<5.00	NA	NA	18750
Soluble Boron	6.53	NA	NA	15000
Soluble Cadmium	<5.00	NA	NA	17
Soluble Chromium	<0.15 ^{#1}	NA	NA	CrIII: 460mg/kg CrVI: 0.2mg/kg
Soluble Cobalt	<5.00	NA	NA	130
Soluble Copper	<5.00	NA	NA	7700
Soluble Lead	<5.00	NA	NA	23
Soluble Manganese	<5.00	NA	NA	15000
Soluble Mercury	<5.00	NA	NA	94
Soluble Nickel	<5.00	NA	NA	930
Soluble Selenium	<5.00	NA	NA	460
Soluble Strontium	<5.00	NA	NA	56000
Soluble Tin	<3.00	NA	NA	180000
Organic Tin	<7.50 ^{#3}	NA	NA	12
Soluble Zinc	<5.00	NA	NA	46000
Conclusion	Pass	Pass	Pass	-

- Note
1. "<" denotes less than
 2. "mg/kg" denotes milligram per kilogram
 3. * denotes test specimen less than 10 milligram is not required to test the soluble migrated elements according to EN71-3:2013 + A3:2018
 4. "NA" denotes Not Applicable
 5. ^{#1} denotes Chromium III and Chromium VI are determined by screening of total Chromium.
 6. ^{#3} denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin



3.3 Migration of certain elements

With reference to Directive 2009/48/EC and its amendment Directive (EU) 2017/738 on the Safety of Toys

Sample preparation according to EN 71-3 : 2013 + A3 : 2018 Migration of certain elements.

As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 036	Sample 037	Sample 038	Category 3
Soluble Aluminum	6.54	8.14	6.04	70000
Soluble Antimony	<5.00	<5.00	<5.00	560
Soluble Arsenic	<2.50	<2.50	<2.50	47
Soluble Barium	<5.00	<5.00	<5.00	18750
Soluble Boron	6.48	7.56	13.1	15000
Soluble Cadmium	<5.00	<5.00	<5.00	17
Soluble Chromium	<0.15 ^{#1}	<0.15 ^{#1}	<0.15 ^{#1}	CrIII: 460mg/kg CrVI: 0.2mg/kg
Soluble Cobalt	<5.00	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	<5.00	23
Soluble Manganese	<5.00	<5.00	<5.00	15000
Soluble Mercury	<5.00	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	<5.00	460
Soluble Strontium	<5.00	<5.00	<5.00	56000
Soluble Tin	<3.00	<3.00	<3.00	180000
Organic Tin	<7.50 ^{#3}	<7.50 ^{#3}	<7.50 ^{#3}	12
Soluble Zinc	6.16	5.06	<5.00	46000
Conclusion	Pass	Pass	Pass	-

- Note
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 4. "#3" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin



3.3 Migration of certain elements

With reference to Directive 2009/48/EC and its amendment Directive (EU) 2017/738 on the Safety of Toys

Sample preparation according to EN 71-3 : 2013 + A3 : 2018 Migration of certain elements.

As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 039	Sample 040	Sample 041	Category 3
Soluble Aluminum	14.8	11.4	6.69	70000
Soluble Antimony	<5.00	<5.00	<5.00	560
Soluble Arsenic	<2.50	<2.50	<2.50	47
Soluble Barium	<5.00	<5.00	<5.00	18750
Soluble Boron	13.2	7.58	13.5	15000
Soluble Cadmium	<5.00	<5.00	<5.00	17
Soluble Chromium	<0.15 ^{#1}	<0.15 ^{#1}	<0.15 ^{#1}	CrIII: 460mg/kg CrVI: 0.2mg/kg
Soluble Cobalt	<5.00	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	<5.00	23
Soluble Manganese	<5.00	<5.00	<5.00	15000
Soluble Mercury	<5.00	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	<5.00	460
Soluble Strontium	<5.00	<5.00	<5.00	56000
Soluble Tin	<3.00	<3.00	<3.00	180000
Organic Tin	<7.50 ^{#3}	<7.50 ^{#3}	<7.50 ^{#3}	12
Soluble Zinc	<5.00	<5.00	<5.00	46000
Conclusion	Pass	Pass	Pass	-

- Note
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 4. "#3" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin



3.3 Migration of certain elements

With reference to Directive 2009/48/EC and its amendment Directive (EU) 2017/738 on the Safety of Toys

Sample preparation according to EN 71-3 : 2013 + A3 : 2018 Migration of certain elements.

As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 042	Sample 043	Sample 044	Category 3
Soluble Aluminum	<5.00	<5.00	6.04	70000
Soluble Antimony	<5.00	<5.00	<5.00	560
Soluble Arsenic	<2.50	<2.50	<2.50	47
Soluble Barium	<5.00	<5.00	<5.00	18750
Soluble Boron	<5.00	<5.00	6.47	15000
Soluble Cadmium	<5.00	<5.00	<5.00	17
Soluble Chromium	<0.15 ^{#1}	<0.15 ^{#1}	<0.15 ^{#1}	CrIII: 460mg/kg CrVI: 0.2mg/kg
Soluble Cobalt	<5.00	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	<5.00	23
Soluble Manganese	<5.00	<5.00	<5.00	15000
Soluble Mercury	<5.00	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	<5.00	460
Soluble Strontium	<5.00	<5.00	<5.00	56000
Soluble Tin	<3.00	<3.00	<3.00	180000
Organic Tin	<7.50 ^{#3}	<7.50 ^{#3}	<7.50 ^{#3}	12
Soluble Zinc	<5.00	<5.00	<5.00	46000
Conclusion	Pass	Pass	Pass	-

- Note
1. "<" denotes less than
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 4. "#3" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin



3.3 Migration of certain elements

With reference to Directive 2009/48/EC and its amendment Directive (EU) 2017/738 on the Safety of Toys

Sample preparation according to EN 71-3 : 2013 + A3 : 2018 Migration of certain elements.

As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 045	Sample 049	Sample 050	Category 3
Soluble Aluminum	6.39	50.2	5.23	70000
Soluble Antimony	<5.00	<5.00	<5.00	560
Soluble Arsenic	<2.50	<2.50	<2.50	47
Soluble Barium	<5.00	<5.00	<5.00	18750
Soluble Boron	5.54	8.12	8.07	15000
Soluble Cadmium	<5.00	<5.00	<5.00	17
Soluble Chromium	<0.15 ^{#1}	<0.15 ^{#1}	<0.15 ^{#1}	CrIII: 460mg/kg CrVI: 0.2mg/kg
Soluble Cobalt	<5.00	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	<5.00	23
Soluble Manganese	<5.00	<5.00	<5.00	15000
Soluble Mercury	<5.00	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	<5.00	460
Soluble Strontium	<5.00	9.73	<5.00	56000
Soluble Tin	<3.00	<3.00	<3.00	180000
Organic Tin	<7.50 ^{#3}	<7.50 ^{#3}	<7.50 ^{#3}	12
Soluble Zinc	<5.00	5.60	<5.00	46000
Conclusion	Pass	Pass	Pass	-

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3.3 Migration of certain elements

With reference to Directive 2009/48/EC and its amendment Directive (EU) 2017/738 on the Safety of Toys

Sample preparation according to EN 71-3 : 2013 + A3 : 2018 Migration of certain elements.

As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 052	Sample 053	Sample 054	Category 3
Soluble Aluminum	7.28	5.93	6.20	70000
Soluble Antimony	<5.00	<5.00	<5.00	560
Soluble Arsenic	<2.50	<2.50	<2.50	47
Soluble Barium	<5.00	<5.00	<5.00	18750
Soluble Boron	9.02	8.16	7.07	15000
Soluble Cadmium	<5.00	<5.00	<5.00	17
Soluble Chromium	<0.15 ^{#1}	<0.15 ^{#1}	<0.15 ^{#1}	CrIII: 460mg/kg CrVI: 0.2mg/kg
Soluble Cobalt	<5.00	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	<5.00	23
Soluble Manganese	<5.00	<5.00	<5.00	15000
Soluble Mercury	<5.00	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	<5.00	460
Soluble Strontium	<5.00	<5.00	<5.00	56000
Soluble Tin	<3.00	<3.00	<3.00	180000
Organic Tin	<7.50 ^{#3}	<7.50 ^{#3}	<7.50 ^{#3}	12
Soluble Zinc	<5.00	<5.00	<5.00	46000
Conclusion	Pass	Pass	Pass	-

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3.3 Migration of certain elements

With reference to Directive 2009/48/EC and its amendment Directive (EU) 2017/738 on the Safety of Toys

Sample preparation according to EN 71-3 : 2013 + A3 : 2018 Migration of certain elements.

As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 055	Sample 057	Sample 058	Category 3
Soluble Aluminum	47.0	8.27	7.97	70000
Soluble Antimony	<5.00	<5.00	<5.00	560
Soluble Arsenic	<2.50	<2.50	<2.50	47
Soluble Barium	<5.00	<5.00	<5.00	18750
Soluble Boron	7.65	5.98	6.11	15000
Soluble Cadmium	<5.00	<5.00	<5.00	17
Soluble Chromium	<0.15 ^{#1}	<0.15 ^{#1}	<0.15 ^{#1}	CrIII: 460mg/kg CrVI: 0.2mg/kg
Soluble Cobalt	<5.00	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	<5.00	23
Soluble Manganese	<5.00	<5.00	<5.00	15000
Soluble Mercury	<5.00	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	<5.00	460
Soluble Strontium	10.4	5.01	<5.00	56000
Soluble Tin	<3.00	<3.00	<3.00	180000
Organic Tin	<7.50 ^{#3}	<7.50 ^{#3}	<7.50 ^{#3}	12
Soluble Zinc	6.84	<5.00	<5.00	46000
Conclusion	Pass	Pass	Pass	-

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 3. "#1" denotes Chromium III and Chromium VI are determined by screening of total Chromium
 4. "#3" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin



3.3 Migration of certain elements

With reference to Directive 2009/48/EC and its amendment Directive (EU) 2017/738 on the Safety of Toys

Sample preparation according to EN 71-3 : 2013 + A3 : 2018 Migration of certain elements.

As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Migration Elements	Results [mg/kg]		Maximum Permissible Limits [mg/kg]
	Sample 059	Sample 061	Category 3
Soluble Aluminum	5.90	75.3	70000
Soluble Antimony	<5.00	<5.00	560
Soluble Arsenic	<2.50	<2.50	47
Soluble Barium	<5.00	<5.00	18750
Soluble Boron	9.19	11.6	15000
Soluble Cadmium	<5.00	<5.00	17
Soluble Chromium	<0.15 ^{#1}	<0.15 ^{#1}	CrIII: 460mg/kg CrVI: 0.2mg/kg
Soluble Cobalt	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	23
Soluble Manganese	<5.00	<5.00	15000
Soluble Mercury	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	460
Soluble Strontium	<5.00	11.7	56000
Soluble Tin	<3.00	<3.00	180000
Organic Tin	<7.50 ^{#3}	<7.50 ^{#3}	12
Soluble Zinc	<5.00	12.1	46000
Conclusion	Pass	Pass	-

Note 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3. "#1" denotes Chromium III and Chromium VI are determined by screening of total Chromium

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



3.4 Azodyes

Regulation (EC) No. 1907/2006, Annex XVII, Entry 43 and its amendment Regulation (EC) No. 552/2009 (Formerly restricted under 2002/61/EC & 2004/21/EC)

Test in accordance with EN ISO 14362-1:2017 (for textiles) or ISO 17234-1:2015 (for leather).

The presence of 4-aminoazobenzene is determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

[Reporting Limit = 5.0 mg/kg]

No.	Forbidden Amine	CAS No.	Results [mg/kg]		
			Sample 036+040+050	Sample 041	Sample 042
1	4-aminobiphenyl	92-67-1	<5.0	<5.0	<5.0
2	Benzidine	92-87-5	<5.0	<5.0	<5.0
3	4-chloro-o-toluidine	95-69-2	<5.0	<5.0	<5.0
4	2-naphthylamine	91-59-8	<5.0	<5.0	<5.0
5	o-aminoazotoluene	97-56-3	<5.0	<5.0	<5.0
6	5-nitro-o-toluidine	99-55-8	<5.0	<5.0	<5.0
7	4-chloroaniline	106-47-8	<5.0	<5.0	<5.0
8	2,4-diaminoanisole	615-05-4	<5.0	<5.0	<5.0
9	4,4'-diaminodiphenylmethane	101-77-9	<5.0	<5.0	<5.0
10	3,3'-dichlorobenzidine	91-94-1	<5.0	<5.0	<5.0
11	3,3'-Dimethoxybenzidine	119-90-4	<5.0	<5.0	<5.0
12	3,3'-dimethylbenzidine	119-93-7	<5.0	<5.0	<5.0
13	4,4'-methylenedi-o-toluidine	838-88-0	<5.0	<5.0	<5.0
14	p-cresidine	120-71-8	<5.0	<5.0	<5.0
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	<5.0	<5.0	<5.0
16	4,4'-oxydianiline	101-80-4	<5.0	<5.0	<5.0
17	4,4'-thiodianiline	139-65-1	<5.0	<5.0	<5.0
18	o-toluidine	95-53-4	<5.0	<5.0	<5.0
19	2,4-toluenediamine	95-80-7	<5.0	<5.0	<5.0
20	2,4,5-trimethylaniline	137-17-7	<5.0	<5.0	<5.0
21	2-methoxyaniline	90-04-0	<5.0	<5.0	<5.0
22	2,4-xylidine [#]	95-68-1	<5.0	<5.0	<5.0
23	2,6-xylidine [#]	87-62-7	<5.0	<5.0	<5.0
24	4-aminoazobenzene*	60-09-3	<5.0	<5.0	<5.0
Method			EN ISO 14362-1:2017(P2)		
Limit			< 30 mg/kg		
Conclusion			Pass	Pass	Pass

Note:

1. “#” denotes 2,4-xylidine and 2,6-xylidine are not under Regulation (EC) No.1907/2006 and they are for client’s reference.
2. “<” denotes less than
3. “mg/kg” denotes milligram per kilogram

* Azo colorants that are able to form 4-aminoazobenzene, as generated under the current testing condition stated in EN ISO 14362-1:2017 are aniline and 1,4-phenylenediamine. The presence of 4-aminoazobenzene is determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

Interpretation of test results:

- (1) In the case of the measured value per amine component <=30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.



3.4 Azodyes

Regulation (EC) No. 1907/2006, Annex XVII, Entry 43 and its amendment Regulation (EC) No. 552/2009 (Formerly restricted under 2002/61/EC & 2004/21/EC)

Test in accordance with EN ISO 14362-1:2017 (for textiles) or ISO 17234-1:2015 (for leather).

The presence of 4-aminoazobenzene is determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

[Reporting Limit = 5.0 mg/kg]

No.	Forbidden Amine	CAS No.	Results [mg/kg]		
			Sample 049	Sample 051	Sample 052+055
1	4-aminobiphenyl	92-67-1	<5.0	<5.0	<5.0
2	Benzidine	92-87-5	<5.0	<5.0	<5.0
3	4-chloro-o-toluidine	95-69-2	<5.0	<5.0	<5.0
4	2-naphthylamine	91-59-8	<5.0	<5.0	<5.0
5	o-aminoazotoluene	97-56-3	<5.0	<5.0	<5.0
6	5-nitro-o-toluidine	99-55-8	<5.0	<5.0	<5.0
7	4-chloroaniline	106-47-8	<5.0	<5.0	<5.0
8	2,4-diaminoanisole	615-05-4	<5.0	<5.0	<5.0
9	4,4'-diaminodiphenylmethane	101-77-9	<5.0	<5.0	<5.0
10	3,3'-dichlorobenzidine	91-94-1	<5.0	<5.0	<5.0
11	3,3'-Dimethoxybenzidine	119-90-4	<5.0	<5.0	<5.0
12	3,3'-dimethylbenzidine	119-93-7	<5.0	<5.0	<5.0
13	4,4'-methylenedi-o-toluidine	838-88-0	<5.0	<5.0	<5.0
14	p-cresidine	120-71-8	<5.0	<5.0	<5.0
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	<5.0	<5.0	<5.0
16	4,4'-oxydianiline	101-80-4	<5.0	<5.0	<5.0
17	4,4'-thiodianiline	139-65-1	<5.0	<5.0	<5.0
18	o-toluidine	95-53-4	<5.0	<5.0	<5.0
19	2,4-toluenediamine	95-80-7	<5.0	<5.0	<5.0
20	2,4,5-trimethylaniline	137-17-7	<5.0	<5.0	<5.0
21	2-methoxyaniline	90-04-0	<5.0	<5.0	<5.0
22	2,4-xylidine [#]	95-68-1	<5.0	<5.0	<5.0
23	2,6-xylidine [#]	87-62-7	<5.0	<5.0	<5.0
24	4-aminoazobenzene*	60-09-3	<5.0	<5.0	<5.0
Method			EN ISO 14362-1:2017(P2)		EN ISO 14362-1:2017(P2) EN ISO 14362-3:2017(P2)
Limit			< 30 mg/kg		
Conclusion			Pass	Pass	Pass

Note:

1. “#” denotes 2,4-xylidine and 2,6-xylidine are not under Regulation (EC) No.1907/2006 and they are for client’s reference.
2. “<” denotes less than
3. “mg/kg” denotes milligram per kilogram

* Azo colorants that are able to form 4-aminoazobenzene, as generated under the current testing condition stated in EN ISO 14362-1:2017 are aniline and 1,4-phenylenediamine. The presence of 4-aminoazobenzene is determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

Interpretation of test results:

- (1) In the case of the measured value per amine component <=30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.



3.4 Azodyes

Regulation (EC) No. 1907/2006, Annex XVII, Entry 43 and its amendment Regulation (EC) No. 552/2009 (Formerly restricted under 2002/61/EC & 2004/21/EC)

Test in accordance with EN ISO 14362-1:2017 (for textiles) or ISO 17234-1:2015 (for leather).

The presence of 4-aminoazobenzene is determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

[Reporting Limit = 5.0 mg/kg]

No.	Forbidden Amine	CAS No.	Results [mg/kg]		
			Sample 056+057	Sample 060	Sample 061
1	4-aminobiphenyl	92-67-1	<5.0	<5.0	<5.0
2	Benzidine	92-87-5	<5.0	<5.0	<5.0
3	4-chloro-o-toluidine	95-69-2	<5.0	<5.0	<5.0
4	2-naphthylamine	91-59-8	<5.0	<5.0	<5.0
5	o-aminoazotoluene	97-56-3	<5.0	<5.0	<5.0
6	5-nitro-o-toluidine	99-55-8	<5.0	<5.0	<5.0
7	4-chloroaniline	106-47-8	<5.0	<5.0	<5.0
8	2,4-diaminoanisole	615-05-4	<5.0	<5.0	<5.0
9	4,4'-diaminodiphenylmethane	101-77-9	<5.0	<5.0	<5.0
10	3,3'-dichlorobenzidine	91-94-1	<5.0	<5.0	<5.0
11	3,3'-Dimethoxybenzidine	119-90-4	<5.0	<5.0	<5.0
12	3,3'-dimethylbenzidine	119-93-7	<5.0	<5.0	<5.0
13	4,4'-methylenedi-o-toluidine	838-88-0	<5.0	<5.0	<5.0
14	p-cresidine	120-71-8	<5.0	<5.0	<5.0
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	<5.0	<5.0	<5.0
16	4,4'-oxydianiline	101-80-4	<5.0	<5.0	<5.0
17	4,4'-thiodianiline	139-65-1	<5.0	<5.0	<5.0
18	o-toluidine	95-53-4	<5.0	<5.0	<5.0
19	2,4-toluenediamine	95-80-7	<5.0	<5.0	<5.0
20	2,4,5-trimethylaniline	137-17-7	<5.0	<5.0	<5.0
21	2-methoxyaniline	90-04-0	<5.0	<5.0	<5.0
22	2,4-xylidine [#]	95-68-1	<5.0	<5.0	<5.0
23	2,6-xylidine [#]	87-62-7	<5.0	<5.0	<5.0
24	4-aminoazobenzene*	60-09-3	<5.0	<5.0	<5.0
Method			EN ISO 14362-1:2017(P2)		
Limit			< 30 mg/kg		
Conclusion			Pass	Pass	Pass

Note:

1. “#” denotes 2,4-xylidine and 2,6-xylidine are not under Regulation (EC) No.1907/2006 and they are for client’s reference.
2. “<” denotes less than
3. “mg/kg” denotes milligram per kilogram

* Azo colorants that are able to form 4-aminoazobenzene, as generated under the current testing condition stated in EN ISO 14362-1:2017 are aniline and 1,4-phenylenediamine. The presence of 4-aminoazobenzene is determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

Interpretation of test results:

- (1) In the case of the measured value per amine component <=30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.

3.5 Cadmium & Mercury in Battery Directive 2013/56/EU Amending Directive 2006/66/EC

Acid Digestion followed by Atomic Absorption Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES) analysis.

[Reporting Limit: Hg=0.00005%, Cd=0.0002%]

Analyte(s)	Result [%]	Limit [%]
	Sample 066	
Total Cadmium (Cd)	<0.00020	0.002
Total Mercury (Hg)	<0.00005	0.0005
Conclusion	Pass	-

Note:

1. “%” denotes percentage by weight
2. “<” denotes less than
3. Batteries, accumulators and button cells which containing more than 0.002% cadmium or 0.0005 % mercury shall be marked with the chemical symbol of the metal concerned: Cd, Hg

3.6 Total Lead in Battery

Acid Digestion followed by Atomic Absorption Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES) analysis.

[Reporting Limit = 0.0004%]

Analyte	Result [%]
	Sample 066
Total Lead (Pb)	<0.0004
Conclusion	Report As Is

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

3. Batteries, accumulators and button cells containing more than 0.004% lead shall be marked with the chemical symbol of the metal concerned: Pb

3.7 Polycyclic Aromatic Hydrocarbons (PAHs)

Test according to German Committee on Product Safety (AfPS) AfPS GS 2014:01 PAK

Solvent extraction followed by GC-MS analysis

[Reporting Limit = 0.1 mg/kg]

Compounds	CAS No.	Results [mg/kg]		
		Sample 004	Sample 043	Sample 049
Naphthalene	91-20-3	<0.1	<0.1	<0.1
Acenaphthylene	208-96-8	<0.1	<0.1	<0.1
Acenaphthene	83-32-9	<0.1	<0.1	<0.1
Fluorene	86-73-7	<0.1	<0.1	<0.1
Phenanthrene	85-01-8	<0.1	<0.1	<0.1
Anthracene	120-12-7	<0.1	<0.1	<0.1
Fluoranthene	206-44-0	<0.1	<0.1	<0.1
Pyrene	129-00-0	<0.1	<0.1	<0.1
Sum of 7 PAHs	-	<0.1	<0.1	<0.1
Benzo[a]anthracene	56-55-3	<0.1	<0.1	<0.1
Chrysene	218-01-9	<0.1	<0.1	<0.1
Benzo[b]fluoranthene	205-99-2	<0.1	<0.1	<0.1
Benzo[j]fluoranthene	205-82-3	<0.1	<0.1	<0.1
Benzo[k]fluoranthene	207-08-9	<0.1	<0.1	<0.1
Benzo[a]pyrene	50-32-8	<0.1	<0.1	<0.1
Benzo[e]pyrene	192-97-2	<0.1	<0.1	<0.1
Benzo[ghi]perylene	191-24-2	<0.1	<0.1	<0.1
dibenzo[ah]anthracene	53-70-3	<0.1	<0.1	<0.1
Indeno[1,2,3-cd]pyrene	193-39-5	<0.1	<0.1	<0.1
Sum of detected 18 PAHs	-	<0.1	<0.1	<0.1
Category		Category 3	Category 2	Category 2
Conclusion		Pass	Pass	Pass

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- Limit:

Parameter (mg/kg)	Category 1 Materials which are intended in the mouth, or materials in toys intended and with long-term skin contact (longer than 30 seconds)	Category 2 Materials not covered by category 1, with foreseeable skin contact for longer than 30 s (long-term skin contact) or repeated short term skin contact*		Category 3 Materials not covered by category 1 or 2, with foreseeable skin contact up to 30 seconds short term skin contact	
		Toys according to directive 2009/48/EC	All others products according to Product Safety Act	Toys according to directive 2009/48/EC	All other products according to Product Safety Act
-	-				
Benzo[a]pyrene, Benzo[e]pyrene Benzo[a]anthracene, Benzo[b]fluoranthene Benzo[j]fluoranthene, Benzo[k]fluoranthene Chrysene, Dibenzo[a,h]anthracene Benzo[ghi]perylene, Indeno[1,2,3-cd]pyrene	Each < 0.2	Each < 0.2	Each < 0.5	Each < 0.5	Each < 1
Naphthalene	<1	<2		<10	
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	Sum < 1	Sum < 5	Sum < 10	Sum < 20	Sum < 50
Sum 18 PAHs	<1	<5	<10	<20	<50

3.7 Polycyclic Aromatic Hydrocarbons (PAHs)

Test according to German Committee on Product Safety (AfPS) AfPS GS 2014:01 PAK

Solvent extraction followed by GC-MS analysis

[Reporting Limit = 0.1 mg/kg]

Compounds	CAS No.	Results [mg/kg]	
		Sample 055	Sample 061
Naphthalene	91-20-3	<0.1	<0.1
Acenaphthylene	208-96-8	<0.1	<0.1
Acenaphthene	83-32-9	<0.1	<0.1
Fluorene	86-73-7	<0.1	<0.1
Phenanthrene	85-01-8	<0.1	<0.1
Anthracene	120-12-7	<0.1	<0.1
Fluoranthene	206-44-0	<0.1	<0.1
Pyrene	129-00-0	<0.1	<0.1
Sum of 7 PAHs	-	<0.1	<0.1
Benzo[a]anthracene	56-55-3	<0.1	<0.1
Chrysene	218-01-9	<0.1	<0.1
Benzo[b]fluoranthene	205-99-2	<0.1	<0.1
Benzo[j]fluoranthene	205-82-3	<0.1	<0.1
Benzo[k]fluoranthene	207-08-9	<0.1	<0.1
Benzo[a]pyrene	50-32-8	<0.1	<0.1
Benzo[e]pyrene	192-97-2	<0.1	<0.1
Benzo[ghi]perylene	191-24-2	<0.1	<0.1
dibenzo[ah]anthracene	53-70-3	<0.1	<0.1
Indeno[1,2,3-cd]pyrene	193-39-5	<0.1	<0.1
Sum of detected 18 PAHs	-	<0.1	<0.1
Category		Category 2	Category 2
Conclusion		Pass	Pass

Note:

1. "mg/kg" denotes milligram per kilogram
2. "<" denotes less than
3. Limit:

Parameter (mg/kg)	Category 1 Materials which are intended in the mouth, or materials in toys intended and with long-term skin contact (longer than 30 seconds)	Category 2 Materials not covered by category 1, with foreseeable skin contact for longer than 30 s (long-term skin contact) or repeated short term skin contact*		Category 3 Materials not covered by category 1 or 2, with foreseeable skin contact up to 30 seconds short term skin contact	
		Toys according to directive 2009/48/EC	All others products according to Product Safety Act	Toys according to directive 2009/48/EC	All other products according to Product Safety Act
-	-				
Benzo[a]pyrene, Benzo[e]pyrene Benzo[a]anthracene, Benzo[b]fluoranthene Benzo[j]fluoranthene, Benzo[k]fluoranthene Chrysene, Dibenzo[a,h]anthracene Benzo[ghi]perylene, Indeno[1,2,3-cd]pyrene	Each < 0.2	Each < 0.2	Each < 0.5	Each < 0.5	Each < 1
Naphthalene	<1	<2		<10	
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	Sum <1	Sum <5	Sum <10	Sum <20	Sum <50
Sum 18 PAHs	<1	<5	<10	<20	<50



3.8 Polycyclic Aromatic Hydrocarbons (PAHs)

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

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

Test with reference to AfPS GS 2014:01 PAK Solvent extraction followed by GC-MS analysis

[Reporting Limit = 0.1mg/kg]

PAHs	CAS No.	Results [mg/kg]		
		Sample 004	Sample 005+006	Sample 043
Benzo[a]anthracene	56-55-3	<0.1	<0.1	<0.1
Chrysene	218-01-9	<0.1	<0.1	<0.1
Benzo[b]fluoranthene	205-99-2	<0.1	<0.1	<0.1
Benzo[j]fluoranthene	205-82-3	<0.1	<0.1	<0.1
Benzo[k]fluoranthene	207-08-9	<0.1	<0.1	<0.1
Benzo[a]pyrene	50-32-8	<0.1	<0.1	<0.1
Benzo[e]pyrene	192-97-2	<0.1	<0.1	<0.1
dibenzo[ah]anthracene	53-70-3	<0.1	<0.1	<0.1
Limit		Toys: each <0.5 mg/kg		
Conclusion		Pass	Pass	Pass

PAHs	CAS No.	Results [mg/kg]		
		Sample 049	Sample 055	Sample 061
Benzo[a]anthracene	56-55-3	<0.1	<0.1	<0.1
Chrysene	218-01-9	<0.1	<0.1	<0.1
Benzo[b]fluoranthene	205-99-2	<0.1	<0.1	<0.1
Benzo[j]fluoranthene	205-82-3	<0.1	<0.1	<0.1
Benzo[k]fluoranthene	207-08-9	<0.1	<0.1	<0.1
Benzo[a]pyrene	50-32-8	<0.1	<0.1	<0.1
Benzo[e]pyrene	192-97-2	<0.1	<0.1	<0.1
dibenzo[ah]anthracene	53-70-3	<0.1	<0.1	<0.1
Limit		Toys: each <0.5 mg/kg		
Conclusion		Pass	Pass	Pass

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

2. "<" denotes less than

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

3.9 Phthalates

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

Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 51 and 52.

Solvent extraction and GC-MS analysis.

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 004+043	Sample 005+006	Sample 014+015	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	<0.005	Sum of DEHP, DBP, BBP < 0.1%
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	<0.005	
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	<0.005	
Sum of DEHP, DBP, BBP	-	<0.005	<0.005	<0.005	
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	<0.005	<0.005	-	Sum of DINP, DIDP, DNOP < 0.1%
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	<0.005	<0.005	-	
Di-n-octyl phthalate, DNOP	117-84-0	<0.005	<0.005	-	
Sum of DINP, DIDP, DNOP	-	<0.005	<0.005	-	
Conclusion		Pass	Pass	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight



3.9 Phthalates

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

Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 51 and 52.

Solvent extraction and GC-MS analysis.

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 017	Sample 019+031	Sample 020	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	<0.005	Sum of DEHP, DBP, BBP < 0.1%
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	<0.005	
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	<0.005	
Sum of DEHP, DBP, BBP	-	<0.005	<0.005	<0.005	
Conclusion		Pass	Pass	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight





3.9 Phthalates

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

Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 51 and 52.

Solvent extraction and GC-MS analysis.

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 032+034	Sample 047	Sample 049+055 +061	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	<0.005	Sum of DEHP, DBP, BBP < 0.1%
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	<0.005	
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	<0.005	
Sum of DEHP, DBP, BBP	-	<0.005	<0.005	<0.005	
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	-	-	<0.005	Sum of DINP, DIDP, DNOP < 0.1%
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	-	-	<0.005	
Di-n-octyl phthalate, DNOP	117-84-0	-	-	<0.005	
Sum of DINP, DIDP, DNOP	-	-	-	<0.005	
Conclusion		Pass	Pass	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight



3.9 Phthalates

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

Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 51 and 52.

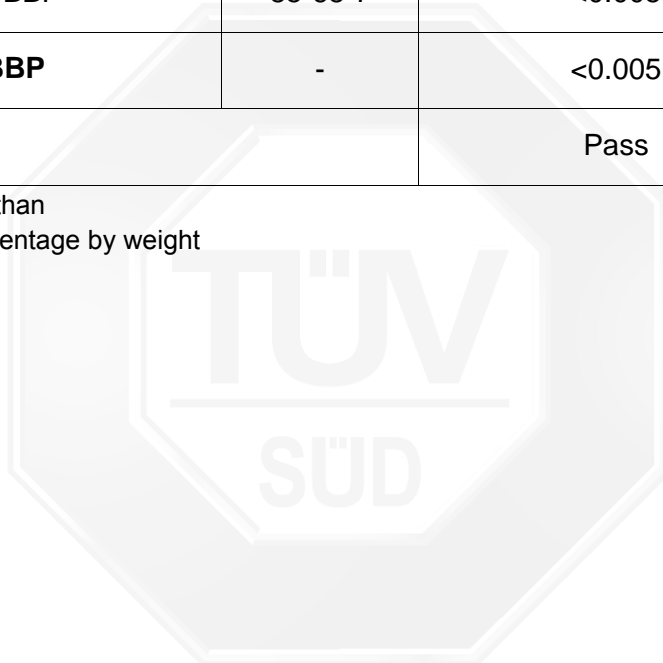
Solvent extraction and GC-MS analysis.

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]	Limit [%]
		Sample 063	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	Sum of DEHP, DBP, BBP < 0.1%
Dibutyl phthalate, DBP	84-74-2	<0.005	
Benzyl butyl phthalate, BBP	85-68-7	<0.005	
Sum of DEHP, DBP, BBP	-	<0.005	
Conclusion		Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight





3.10 Short-Chain Chlorinated Paraffins (SCCP) Test

POPs Regulation (EC) No. 2015/2030

Extraction with n-hexane and determined by GC-MS

[Reporting Limit = 100mg/kg]

Analyte(s)	CAS No.	Results [mg/kg]		
		Sample 014+015	Sample 017	Sample 020
SCCP	85535-84-8	<100	<100	<100
Limit		<1500		
Conclusion		Pass	Pass	Pass

Analyte(s)	CAS No.	Results [mg/kg]
		Sample 032
SCCP	85535-84-8	<100
Limit		<1500
Conclusion		Pass

Note 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram



3.11 Total Cadmium

Regulation (EU) 2016/217, amending Annex XVII to Regulation (EC) No. 1907/2006 Entry 23.
 Microwave digestion/EN 1122:2001 Method B and followed by Atomic Absorption Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)
 [Reporting Limit = 10.0mg/kg]

Analyte	Results [mg/kg]		
	Sample 004+043	Sample 005	Sample 006
Cadmium	<10.0	<10.0	<10.0
Limit	<100	<1000	
Conclusion	Pass	Pass	Pass

Analyte	Results [mg/kg]		
	Sample 014+015	Sample 017	Sample 019+031
Cadmium	<10.0	<10.0	<10.0
Limit	<100		
Conclusion	Pass	Pass	Pass

Analyte	Results [mg/kg]		
	Sample 020	Sample 023	Sample 032+034
Cadmium	<10.0	<10.0	<10.0
Limit	<100		
Conclusion	Pass	Pass	Pass

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

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



3.11 Total Cadmium

Regulation (EU) 2016/217, amending Annex XVII to Regulation (EC) No. 1907/2006 Entry 23.
 Microwave digestion/EN 1122:2001 Method B and followed by Atomic Absorption Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)
 [Reporting Limit = 10.0mg/kg]

Analyte	Results [mg/kg]		
	Sample 047	Sample 049	Sample 055
Cadmium	<10.0	<10.0	<10.0
Limit	<100	<1000	
Conclusion	Pass	Pass	Pass

Analyte	Results [mg/kg]	
	Sample 061	Sample 063
Cadmium	<10.0	<10.0
Limit	<1000	<100
Conclusion	Pass	Pass

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

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

3.12 Dimethylfumarate (DMFu)

Regulation (EC) No. 1907/2006, Annex XVII, Entry 61 and its amendment Regulation (EU) No. 412/2012

Extraction with organic solvent, and analyzed by GC-MS

[Reporting Limit = 0.1mg/kg]

Analyte(s)	CAS No.	Results [mg/kg]			Limit [mg/kg]
		Sample 036	Sample 040	Sample 041	
Dimethylfumarate	624-49-7	<0.1	<0.1	<0.1	<0.1
Conclusion		Pass	Pass	Pass	-

Analyte(s)	CAS No.	Results [mg/kg]			Limit [mg/kg]
		Sample 042	Sample 044	Sample 045	
Dimethylfumarate	624-49-7	<0.1	<0.1	<0.1	<0.1
Conclusion		Pass	Pass	Pass	-

Analyte(s)	CAS No.	Results [mg/kg]			Limit [mg/kg]
		Sample 049	Sample 050	Sample 051	
Dimethylfumarate	624-49-7	<0.1	<0.1	<0.1	<0.1
Conclusion		Pass	Pass	Pass	-

Analyte(s)	CAS No.	Results [mg/kg]			Limit [mg/kg]
		Sample 052	Sample 055	Sample 056	
Dimethylfumarate	624-49-7	<0.1	<0.1	<0.1	<0.1
Conclusion		Pass	Pass	Pass	-

Analyte(s)	CAS No.	Results [mg/kg]			Limit [mg/kg]
		Sample 057	Sample 060	Sample 061	
Dimethylfumarate	624-49-7	<0.1	<0.1	<0.1	<0.1
Conclusion		Pass	Pass	Pass	-

Note:

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

3.13 Flame Retardants (TCEP, TCPP, TDCP)

Directive 2014/79/EU amending Toy Safety Directive 2009/48/EC

In house method test with reference to USEPA3550C, extraction with organic solvent and analyzed by GC-MS.

[Reporting Limit = 5mg/kg]

Analyte(s)	CAS No.	Results [mg/kg]			Maximum Permissible Limit [mg/kg]
		Sample 014	Sample 015	Sample 017	
1 Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	<5	<5	<5	5
2 Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	<5	<5	<5	5
3 Tris(2-chloro-1-(chloromethyl)ethyl) phosphate (TDCP)	13674-87-8	<5	<5	<5	5
Conclusion		Pass	Pass	Pass	-

Analyte(s)	CAS No.	Results [mg/kg]			Maximum Permissible Limit [mg/kg]
		Sample 020	Sample 034	Sample 036	
1 Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	<5	<5	<5	5
2 Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	<5	<5	<5	5
3 Tris(2-chloro-1-(chloromethyl)ethyl) phosphate (TDCP)	13674-87-8	<5	<5	<5	5
Conclusion		Pass	Pass	Pass	-

Note:

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



3.13 Flame Retardants (TCEP, TCPP, TDCP)

Directive 2014/79/EU amending Toy Safety Directive 2009/48/EC

In house method test with reference to USEPA3550C, extraction with organic solvent and analyzed by GC-MS.

[Reporting Limit = 5mg/kg]

Analyte(s)	CAS No.	Results [mg/kg]			Maximum Permissible Limit [mg/kg]
		Sample 040	Sample 041	Sample 042	
1 Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	<5	<5	<5	5
2 Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	<5	<5	<5	5
3 Tris(2-chloro-1-(chloromethyl)ethyl) phosphate (TDCP)	13674-87-8	<5	<5	<5	5
Conclusion		Pass	Pass	Pass	-

Analyte(s)	CAS No.	Results [mg/kg]			Maximum Permissible Limit [mg/kg]
		Sample 043	Sample 044	Sample 045	
1 Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	<5	<5	<5	5
2 Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	<5	<5	<5	5
3 Tris(2-chloro-1-(chloromethyl)ethyl) phosphate (TDCP)	13674-87-8	<5	<5	<5	5
Conclusion		Pass	Pass	Pass	-

Note:

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

3.13 Flame Retardants (TCEP, TCPP, TDCP)

Directive 2014/79/EU amending Toy Safety Directive 2009/48/EC

In house method test with reference to USEPA3550C, extraction with organic solvent and analyzed by GC-MS.

[Reporting Limit = 5mg/kg]

Analyte(s)	CAS No.	Results [mg/kg]			Maximum Permissible Limit [mg/kg]
		Sample 046	Sample 047	Sample 048	
1 Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	<5	<5	<5	5
2 Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	<5	<5	<5	5
3 Tris(2-chloro-1-(chloromethyl)ethyl) phosphate (TDCP)	13674-87-8	<5	<5	<5	5
Conclusion		Pass	Pass	Pass	-

Analyte(s)	CAS No.	Results [mg/kg]			Maximum Permissible Limit [mg/kg]
		Sample 049	Sample 050	Sample 051	
1 Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	<5	<5	<5	5
2 Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	<5	<5	<5	5
3 Tris(2-chloro-1-(chloromethyl)ethyl) phosphate (TDCP)	13674-87-8	<5	<5	<5	5
Conclusion		Pass	Pass	Pass	-

Note:

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



3.13 Flame Retardants (TCEP, TCPP, TDCP)

Directive 2014/79/EU amending Toy Safety Directive 2009/48/EC

In house method test with reference to USEPA3550C, extraction with organic solvent and analyzed by GC-MS.

[Reporting Limit = 5mg/kg]

Analyte(s)	CAS No.	Results [mg/kg]			Maximum Permissible Limit [mg/kg]
		Sample 052	Sample 055	Sample 056	
1 Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	<5	<5	<5	5
2 Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	<5	<5	<5	5
3 Tris(2-chloro-1-(chloromethyl)ethyl) phosphate (TDCP)	13674-87-8	<5	<5	<5	5
Conclusion		Pass	Pass	Pass	-

Analyte(s)	CAS No.	Results [mg/kg]			Maximum Permissible Limit [mg/kg]
		Sample 057	Sample 060	Sample 061	
1 Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	<5	<5	<5	5
2 Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	<5	<5	<5	5
3 Tris(2-chloro-1-(chloromethyl)ethyl) phosphate (TDCP)	13674-87-8	<5	<5	<5	5
Conclusion		Pass	Pass	Pass	-

Note:

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



3.13 Flame Retardants (TCEP, TCPP, TDCP)

Directive 2014/79/EU amending Toy Safety Directive 2009/48/EC

In house method test with reference to USEPA3550C, extraction with organic solvent and analyzed by GC-MS.

[Reporting Limit = 5mg/kg]

Analyte(s)	CAS No.	Results [mg/kg]			Maximum Permissible Limit [mg/kg]
		Sample 062	Sample 063	Sample 064	
1 Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	<5	<5	<5	5
2 Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	<5	<5	<5	5
3 Tris(2-chloro-1-(chloromethyl)ethyl) phosphate (TDCP)	13674-87-8	<5	<5	<5	5
Conclusion		Pass	Pass	Pass	-

Analyte(s)	CAS No.	Results [mg/kg]	Maximum Permissible Limit [mg/kg]
		Sample 065	
1 Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	<5	5
2 Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	<5	5
3 Tris(2-chloro-1-(chloromethyl)ethyl) phosphate (TDCP)	13674-87-8	<5	5
Conclusion		Pass	-

Note:

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

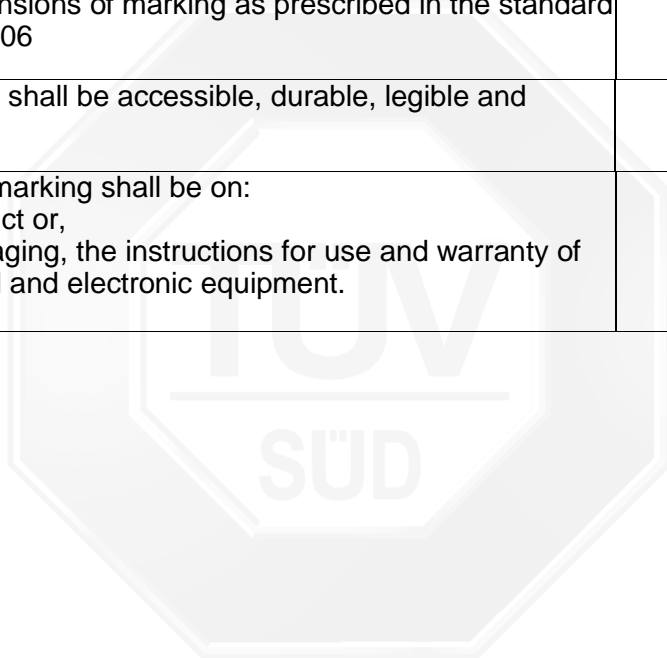


3.14 Marking requirement

Test in accordance with 2012/19/EU - on waste electrical and electronic equipment (WEEE) - Marking requirement

Evaluate the sample according to Directive 2012/19/EU Article 15(2) & EN 50419: 2006

Sample 001, 002, 003		
ITEM NO	DESCRIPTION	ASSESSMENT
1	Unique Identification of producer provided e.g. by brand name, trade mark, company registration number etc.	PASS
2	Date of manufacturing or date of product release to the market (coded or un-coded text) or indicated by an additional solid bar under the crossed wheel bin	PASS
3	Proper dimensions of marking as prescribed in the standard EN50419:2006	PASS
4	The marking shall be accessible, durable, legible and indelible.	PASS
5	Location of marking shall be on: the product or, the packaging, the instructions for use and warranty of the electrical and electronic equipment.	PASS



3.15 Heavy metals - Packaging and packaging waste (Article 11 of 94/62/EC and 2005/20/EC)

Microwave digestion and followed by Atomic Absorption

Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)

[Reporting Limits Cd = 10.0, Cr(VI) = 2.0, Pb = 10.0, Hg = 10.0, all in ppm]

Analyte	Results [ppm]		
	Sample 070	Sample 071	Sample 072
Cadmium	<10.0	<10.0	<10.0
Chromium	<2.0	<2.0	<2.0
Chromium VI*	<2.0*	<2.0*	<2.0*
Lead	<10.0	<10.0	<10.0
Mercury	<10.0	<10.0	<10.0
Cd + Cr(VI) + Pb + Hg	<32	<32	<32
Limit	Cd + Cr(VI) + Pb + Hg < 100		
Conclusion	Pass	Pass	Pass

Analyte	Results [ppm]		
	Sample 073	Sample 074	Sample 075
Cadmium	<10.0	<10.0	<10.0
Chromium	<2.0	<2.0	<2.0
Chromium VI*	<2.0*	<2.0*	<2.0*
Lead	<10.0	<10.0	<10.0
Mercury	<10.0	<10.0	<10.0
Cd + Cr(VI) + Pb + Hg	<32	<32	<32
Limit	Cd + Cr(VI) + Pb + Hg < 100		
Conclusion	Pass	Pass	Pass

Note:

1. "<" denotes less than
2. "ppm" denotes part per million by weight
3. "*" values of total chromium content are reported here unless otherwise specified.



3.15 Heavy metals - Packaging and packaging waste (Article 11 of 94/62/EC and 2005/20/EC)

Microwave digestion and followed by Atomic Absorption

Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)

[Reporting Limits Cd = 10.0, Cr(VI) = 2.0, Pb = 10.0, Hg = 10.0, all in ppm]

Analyte	Results [ppm]		
	Sample 076	Sample 077	Sample 078
Cadmium	<10.0	<10.0	<10.0
Chromium	<2.0	<2.0	<2.0
Chromium VI*	<2.0*	<2.0*	<2.0*
Lead	<10.0	<10.0	<10.0
Mercury	<10.0	<10.0	<10.0
Cd + Cr(VI) + Pb + Hg	<32	<32	<32
Limit	Cd + Cr(VI) + Pb + Hg < 100		
Conclusion	Pass	Pass	Pass

Analyte	Results [ppm]		
	Sample 079	Sample 080	Sample 081
Cadmium	<10.0	<10.0	<10.0
Chromium	<2.0	<2.0	<2.0
Chromium VI*	<2.0*	<2.0*	<2.0*
Lead	<10.0	<10.0	<10.0
Mercury	<10.0	<10.0	<10.0
Cd + Cr(VI) + Pb + Hg	<32	<32	<32
Limit	Cd + Cr(VI) + Pb + Hg < 100		
Conclusion	Pass	Pass	Pass

Note:

1. "<" denotes less than
2. "ppm" denotes part per million by weight
3. "*" values of total chromium content are reported here unless otherwise specified.

-- END OF THE TEST REPORT --

1. General Information and Definitions

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

2. Provision of Services

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

3. Client's Obligations

The Client shall:

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

4. Fees and Payment

- (4.1) All Fees not agreed on between the Company and Client at the time the order is placed or a contract is concluded shall be determined by the Company's Schedule of Fees (which are subject to change). All applicable taxes shall be paid by Client, as far as mandatory laws do not provide otherwise.
- (4.2) Unless a specific period is established in the invoice, the Client shall pay upon receiving the invoice, but not later than 30 days from the relevant invoice date or within such other period as may be established by the Company in the invoice (the "Due Date").
- (4.3) The Client shall not be entitled to retain or defer due payment of any sums to the Company on account of any dispute, counter claim or set-off against the Company. The Company reserves the right to retain or defer any due payments if any dispute arises with or it raises any counterclaim against the Client. The Company is entitled to set off due payments against payments of the Client.

- (4.4) For the collection of unpaid fees, the Company may decide to bring action in any court with competent jurisdiction. The corresponding collection costs, including attorney's fees and related costs, shall be borne by the Client, as far as the mandatory local law does not provide otherwise.
- (4.5) In case of any unforeseen problems or expenses arise while carrying out the services, the Company informs the Client. In such cases, the Company shall be entitled to charge additional fees to cover extra time and to invoice extra costs necessarily incurred to complete the services.
- (4.6) If the Company is unable to perform all or parts of the services for any cause whatsoever beyond the Company's control, including the failure by Client to comply with any of its obligations provided for in the foregoing Clause 3, the Company shall nevertheless be entitled to payments of:
- (1) The amount of all non-refundable expenses incurred by the Company; and
- (2) A proportion of the agreed fee equal to the proportion of the services actually carried out.

5. Suspension or Termination of Services

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

- (5.1) Failure by the Client to comply with any of its obligations under these General Terms and Conditions and such failure is not remedied within 10 days after a notice of such failure has been delivered to the Client; or
- (5.2) Any suspension of payment, arrangement with creditors, bankruptcy, insolvency, receivership or cessation of business by Client.

6. Liability and Indemnification

(6.1) Limitation of Liability:

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

7. Obligation of Confidentiality, Copyright, Data Privacy Protection

- (7.1) The Company shall be authorized to make file copies of written documents, which have been made available to it for review and which are important for processing the order.
- (7.2) Insofar as Reports of Findings are prepared in the course of processing the order and which are subject to the protection of copyright, then the Company shall grant the Client a simple, non-transferable right to use, insofar as this is necessary and in accordance with the contractually presupposed purpose. Other rights shall not be transferred; in particular, the customer shall not be entitled to modify and/or edit audit reports or to make use of such outside of his business premises.
- (7.3) The Company and its staff which may be called in shall not disclose or use trade and business matters about which they have gained knowledge during the performance of their work without proper authorization, or unless instructed by a court or authorized body (e.g. regulatory authority, accreditation body or certification scheme owner) or otherwise legally required.

8. Miscellaneous

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

9. Governing Law, Jurisdiction and Dispute Settlement

- (9.1) Unless specifically agreed otherwise, all disputes arising out or in connection with contractual relationship(s) hereunder shall be governed by the applicable laws and regulations of the People's Republic of China.
- (9.2) Place of performance for any obligation arising out of this contract shall be Shanghai, the Place of the TÜV SÜD Certification and Testing (China) Co., Ltd., Shanghai branch, unless otherwise expressly agreed by the parties.

10. Languages

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