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# Test Report

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Report No. : AGC05443231037-001

**SAMPLE NAME** : YoYo with light  
**MODEL NAME** : IT3854  
**APPLICANT** : MID OCEAN BRANDS B.V  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Oct. 31, 2023

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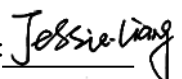


Report No.: AGC05443231037-001

Applicant : MID OCEAN BRANDS B.V  
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.  
Test Site : 5,6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

**Report on the submitted sample(s) said to be:**

Sample Name : YoYo with light  
Model : IT3854  
Vendor code : 106613  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Labeled Age Grading : Not stated  
Requested Age Grading : 3+  
Age Group Applied in Testing : 3+  
Sample receiving state : Normal  
Sample Received Date : Oct. 25, 2023  
Testing Period : Oct. 25, 2023 to Oct. 31, 2023  
Test Requested : Selected test(s) as requested by client.

Approved by : 

Liangdan, Jessie.Liang

Technical Director

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**Test Requested:****Conclusion**

2011/65/EU (RoHS) and its amendment directive (EU) 2015/863  
- Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Pass

European Standard on Safety of Toys  
- EN 71-1:2014+A1:2018: Mechanical and Physical Properties

Pass

European Standard on Safety of Toys  
- EN 71-2:2020: Flammability

Pass

The Directive 2009/48/EC-Safety of Toys  
- Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification)

Pass

European Standard on Safety of Toys  
- EN 71-3:2019+A1:2021: Migration of Certain Elements (Al, Sb, As, Ba, B, Cd, Cr(III), Cr(VI), Co, Cu, Pb, Mn, Hg, Ni, Se, Sr, Sn, Zn)

Pass

European Standard on Safety of Toys  
- EN 71-3:2019+A1:2021: Migration of Certain Elements (Organic Tin)

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52  
- Phthalates Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50  
- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 5  
- Benzene Content

Pass

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## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Oct. 31, 2023	Valid	Initial release

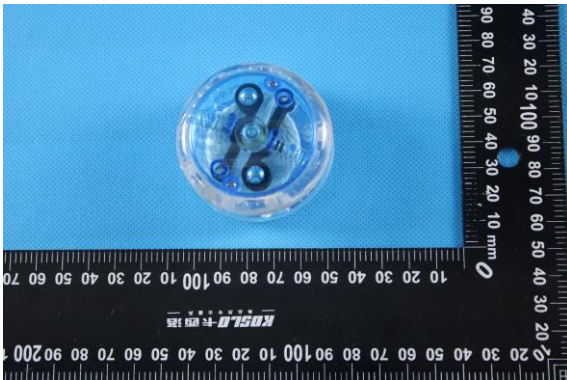
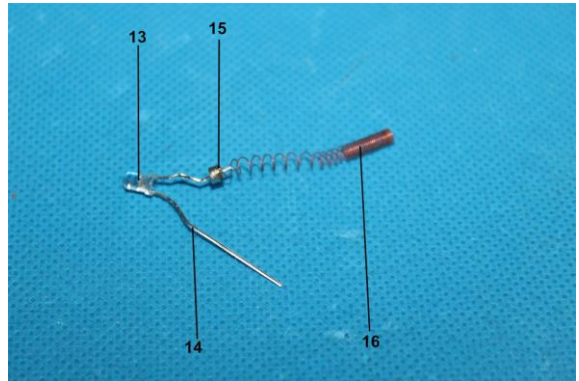
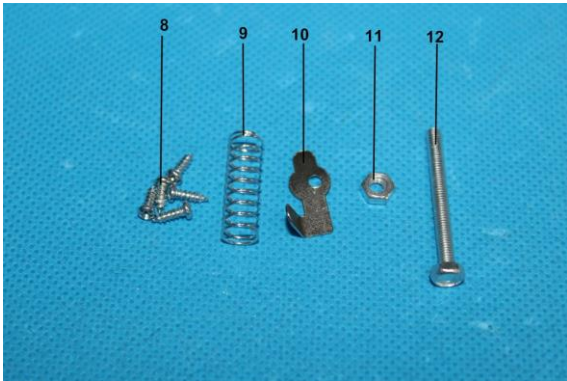
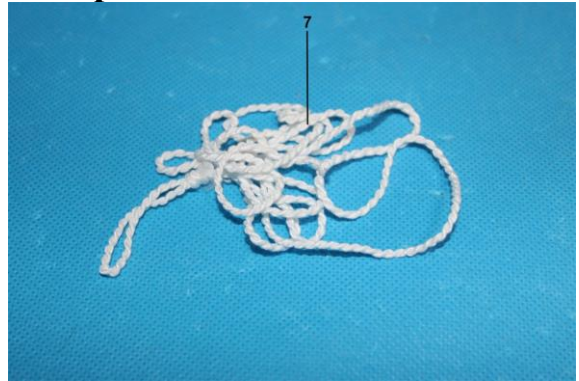
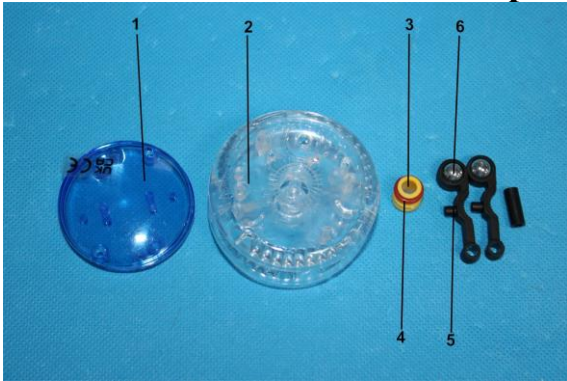
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**The photo of the sample**



The photo of AGC05443231037-001 is for use only with the original report.

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**Test Point Description**

Test point	Test module	Test parts	Test point description
Yoyo Ball Model : IT3854			
1	---	Outer shell	Blue transparent plastic shell
2	---		Transparent plastic shell
3	---		Yellow plastic ring
4	---		Red sealing ring
5	---		Black plastic buckle
6	---		Silver metal bead
7	---		White string
8	---	---	Silver screw
9	---	---	Metal spring
10	---	---	Metallic sheet
11	---	---	Metal threaded ring
12	---	---	Metallic screw
13	---	LED	Transparent LED
14	---		Metal pin
15	---		Copper buckle
16	---		Metal spring
1-1	---	---	Blue transparent plastic shell
1-2	---	---	Transparent plastic shell
1-7	---	---	White string
1-17	---	---	Blue transparent plastic shell+Transparent plastic shell

Note: "---" = The test point exists alone in the sample and is not attached to the test module or test parts.

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**Test Results:**

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

**2011/65/EU (RoHS) and its amendment directive (EU) 2015/863**
**- Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP**

Test Item	Test Method/ Instrument	MDL	Maximum Limit
Lead (Pb)	IEC 62321-3-1:2013/ XRF	/	1000mg/kg
Cadmium (Cd)		/	100mg/kg
Mercury (Hg)		/	1000mg/kg
Total Chromium		/	/
Total Bromine		/	/
<b>Chemistry Method</b>			
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	2mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	2mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	2mg/kg	1000mg/kg
Non-metal: Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
Metal: Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-1:2015/ UV-Vis	0.1µg/cm <sup>2</sup>	/
Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (NonaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
Polybrominated Diphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
Dibutyl phthalate (DBP)		50mg/kg	1000mg/kg
Butylbenzyl phthalate (BBP)		50mg/kg	1000mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg

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Test point	Test Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion	
1	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	BL		/
		PBDEs			/
	DIBP	N/A	N.D.		
	DBP	N/A	N.D.		
	BBP	N/A	N.D.		
DEHP	N/A	N.D.			
2	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	BL		/
		PBDEs			/
	DIBP	N/A	N.D.		
	DBP	N/A	N.D.		
	BBP	N/A	N.D.		
DEHP	N/A	N.D.			
3	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	BL		/
		PBDEs			/
	DIBP	N/A	N.D.		
	DBP	N/A	N.D.		
	BBP	N/A	N.D.		
DEHP	N/A	N.D.			
4	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	BL		/
		PBDEs			/
	DIBP	N/A	N.D.		
	DBP	N/A	N.D.		
	BBP	N/A	N.D.		
DEHP	N/A	N.D.			

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5	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	BL		/
		PBDEs			/
	DIBP	N/A	N.D.		
	DBP	N/A	N.D.		
	BBP	N/A	N.D.		
DEHP	N/A	N.D.			
6	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	N/A		/
		PBDEs			/
	DIBP	N/A	/		
	DBP	N/A	/		
	BBP	N/A	/		
DEHP	N/A	/			
7	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	BL		/
		PBDEs			/
	DIBP	N/A	N.D.		
	DBP	N/A	N.D.		
	BBP	N/A	N.D.		
DEHP	N/A	N.D.			
8	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	N/A		/
		PBDEs			/
	DIBP	N/A	/		
	DBP	N/A	/		
	BBP	N/A	/		
DEHP	N/A	/			

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9	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	N/A		/
		PBDEs			/
	DIBP	N/A	/		
	DBP	N/A	/		
	BBP	N/A	/		
DEHP	N/A	/			
10	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	N/A		/
		PBDEs			/
	DIBP	N/A	/		
	DBP	N/A	/		
	BBP	N/A	/		
DEHP	N/A	/			
11	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	N/A		/
		PBDEs			/
	DIBP	N/A	/		
	DBP	N/A	/		
	BBP	N/A	/		
DEHP	N/A	/			
12	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	N/A		/
		PBDEs			/
	DIBP	N/A	/		
	DBP	N/A	/		
	BBP	N/A	/		
DEHP	N/A	/			

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13	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	BL		/
		PBDEs			/
	DIBP	N/A	N.D.		
	DBP	N/A	N.D.		
	BBP	N/A	N.D.		
DEHP	N/A	N.D.			
14	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	N/A		/
		PBDEs			/
	DIBP	N/A	/		
	DBP	N/A	/		
	BBP	N/A	/		
DEHP	N/A	/			
15	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	N/A		/
		PBDEs			/
	DIBP	N/A	/		
	DBP	N/A	/		
	BBP	N/A	/		
DEHP	N/A	/			
16	Pb	BL	/	Conformity	
	Cd	BL	/		
	Hg	BL	/		
	Cr(Cr <sup>6+</sup> )	BL	/		
	Br	PBBs	N/A		/
		PBDEs			/
	DIBP	N/A	/		
	DBP	N/A	/		
	BBP	N/A	/		
DEHP	N/A	/			

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Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	N/A	$BL \leq 250 - 3\sigma < X$

**Remark:**

- (1) BL= Below Limit, OL= Over limited, IN = Inconclusive, Scanning by XRF and detected by chemical method, N/A = Not applicable.
- (2) Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value.
- (3) The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (4) Boiling-water-extraction:(X represents the results of the tested sample)

Number	Colorimetric result (Cr(VI) concentration)	Judgement
1	$X < 0.1 \mu\text{g}/\text{cm}^2$	Negative
2	$0.1 \mu\text{g}/\text{cm}^2 \leq X \leq 0.13 \mu\text{g}/\text{cm}^2$	Uncertainty
3	$X > 0.13 \mu\text{g}/\text{cm}^2$	Positive

Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

- (5) Disclaimers: This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

**European Standard on Safety of Toys**
**- EN 71-1:2014+A1:2018: Mechanical and Physical Properties**

Clause	Description	Result
4	GENERAL REQUIREMENTS	Pass
4.1	Material cleanliness	Pass
4.2	Assembly	N/A
4.3	Flexible plastics sheeting	N/A
4.4	Toy bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	N/A
4.10	Parts moving against each other	N/A
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving mechanisms	N/A
4.10.3	Hinges	N/A
4.10.4	Springs	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	N/A
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15	Toys intended to bear the mass of a child	N/A
4.15.1	Toys propelled by a child or by other means	N/A
4.15.1.1	General	N/A
4.15.1.2	Warnings and instructions for use	N/A
4.15.1.3	Strength	N/A
4.15.1.4	Stability	N/A
4.15.1.5	Braking	N/A
4.15.1.6	Transmission and wheel arrangement	N/A
4.15.1.7	Adjustable seat pillar and handlebar stem minimum insertion marks	N/A
4.15.1.8	Electrically-driven ride-on toys	N/A
4.15.2	Toy bicycles	N/A
4.15.2.1	General	N/A
4.15.2.2	Warnings and instructions for use	N/A
4.15.2.3	Braking requirements	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toy scooters	N/A
4.15.5.1	General	--
4.15.5.2	Warnings and instructions for use	N/A
4.15.5.3	Strength	N/A
4.15.5.4	Adjustable and folding steering tubes	N/A
4.15.5.5	Braking	N/A
4.15.5.6	Wheel size	N/A
4.15.5.7	Protruding parts	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.17.1	General	--

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4.17.2	All projectiles	N/A
4.17.2.1	Leading parts	N/A
4.17.2.2	Foam shaft projectiles with a suction cup as a leading part	N/A
4.17.2.3	Other types of projectile with a suction cup as a leading part	N/A
4.17.3	Projectile toys with stored energy	N/A
4.17.3.1	Energy limitation	N/A
4.17.3.2	Edges	N/A
4.17.3.3	Projectiles with a protective cap, cover or tip	N/A
4.17.3.4	Impact resistance	N/A
4.17.3.5	Improvised projectiles	N/A
4.17.4	Certain projectile toys without stored energy	N/A
4.17.4.1	Darts	N/A
4.17.4.2	Bows and arrows	N/A
4.17.4.3	Toy catapults and projectiles propelled by an elastic band	N/A
4.17.4.4	Projectile toys without stored energy where the discharge mechanism can store energy, only when held in place by the user	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.23.1	General	--
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	N/A
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy Disguise Costumes	N/A
4.27	Flying toys	N/A
4.27.1	General	N/A
4.27.2	Rotors and propellers on flying toys	N/A
4.27.3	Rotors and propellers on remote controlled flying toys	N/A
5	TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	N/A
5.1	General requirements	N/A
5.2	Filling materials	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.4.1	General	--
5.4.2	Cords and chains in toys intended for children under 18 months	N/A
5.4.2.1	Cords and chains with the potential to tangle	N/A
5.4.2.2	Two cords or chains with the potential to tangle	N/A
5.4.2.3	Separated cords and chains	N/A
5.4.2.4	Free length of cords and chains	N/A
5.4.3	Cords and chains in toys intended for children of 18 months or over but under 36 months	N/A
5.4.3.1	Cords and chains with the potential to tangle	N/A
5.4.3.2	Two cords or chains with the potential to tangle	N/A
5.4.3.3	Separated cords and chains	N/A
5.4.3.4	Free length of cords and chains	N/A
5.4.3.5	Cords and chains not suitable for children under 18 months	N/A
5.4.4	Fixed loops, tangled loops and nooses	N/A
5.4.5	Cords and chains on pull along toys	N/A
5.4.6	Electrical cables	N/A

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5.4.7	Cross-sectional dimension of certain cords	N/A
5.4.8	Self-retracting cords	N/A
5.4.9	Toys attached to or intended to be strung across a cradle, cot or perambulator	N/A
5.4.9.1	Toys intended to be strung across a cradle, cot or perambulator	N/A
5.4.9.2	Toys otherwise intended to be attached to a cradle, cot or perambulator	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically driven toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	PACKAGING	N/A
7	Warnings, markings and instructions for use	Pass
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex balloons	N/A
7.4	Aquatic toys	N/A
7.5	Functional toys	N/A
7.6	Hazardous sharp functional edges and points	N/A
7.7	Projectile toys	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy kites	N/A
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	N/A
7.10.1	Roller skates, inline skates and skateboards	N/A
7.10.2	Ride-on toys without a braking device	N/A
7.10.3	Electrically-driven ride-on toys	N/A
7.10.4	Instructions for use	N/A
7.11	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.12	Liquid-filled teethingers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toy bicycles	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy scooters	N/A
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/electrical experimental sets	N/A
7.21	Toys with electrical cables exceeding 300 mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A
7.23	Toys intended to be attached to a cradle, cot or perambulator	N/A
7.24	Sledges with cords for pulling	N/A
7.25	Flying toys	N/A
7.25.1	Flying toys	N/A
7.25.2	Remote controlled flying toys	N/A
7.26	Improvised projectiles	N/A

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**European Standard on Safety of Toys**
**- EN 71-2:2020: Flammability**

Clause	Requirements	Result
4	Requirements	Pass
4.1	General	Pass
4.2	Toys to be worn on the head	N/A
4.2.1	General	--
4.2.2	Beards, moustaches, wigs, etc, made from hair, pile or material with similar features (e.g. freehanging ribbons, paper or cloth strands), which protrude more than or equal to 50 mm from the surface of the toy	N/A
4.2.3	Beards, moustaches, wigs etc. made from hair, pile or material with similar features (e.g. freehanging ribbons, paper or cloth strands etc.), which protrude less than 50 mm from the surface of the toy	N/A
4.2.4	Full or partial moulded head masks	N/A
4.2.5	Flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses etc. and fabric masks which partially or fully cover the head, but excluding those items covered by 4.3	N/A
4.3	Toys disguise costumes and other toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft Filled Toys (animals and dolls, etc) with a piled or textile surface	N/A

**The Directive 2009/48/EC-Safety of Toys**
**- Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification)**

	On product	On packaging
Washing/Cleaning instruction	N/A	N/A
CE marking	Present	Present
Manufacturer's name	Absent	Absent
Manufacturer's address	Absent	Absent
Importer's name	Absent	Present
Importer's address	Absent	Present
Sample ID	Absent	Present
Remark 1:		
Washing/Cleaning label: According to Directive 2009/48/EC the following safety requirements apply regarding cleaning and washing: 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 toy must fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.		
Remark 2:		
Toys made available on the market must bear the CE marking. The CE marking must be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008. The CE marking must be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging. In the case of small toys and toys consisting of small parts, the CE marking may alternatively be affixed to a label or an accompanying leaflet. Where, in the case of toys sold in counter displays, that is not technically possible, and on condition that the counter display was originally used as packaging for the toy, the CE marking may be affixed to the counter display. Where the CE marking is not visible from outside the packaging, if any, it shall as a minimum be affixed to the packaging. Where specific legislation does not impose specific dimensions, the CE marking must be at least 5 mm high.		
Remark 3:		
The manufacturer'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		

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accompanying the toy. This requirement applies also to the name and address etc. of any importer

Remark 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.

**Note**

Per the client's requirement, the testing age grading is over 3 years of age

N/A=Not Applicable; N/T=Not Tested; DNI = Did Not Ignite; IBSE = Ignite But Self-Extinguished; -- =No judgement required

**European Standard on Safety of Toys**

**- EN 71-3:2019+A1:2021: Migration of Certain Elements (Al, Sb, As, Ba, B, Cd, Cr(III), Cr(VI), Co, Cu, Pb, Mn, Hg, Ni, Se, Sr, Sn, Zn)**

Test Methods and Equipment: EN 71-3:2019+A1:2021; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-1	1-2	1-7
Aluminium(Al)	mg/kg	28130	50	N.D.	N.D.	N.D.
Antimony(Sb)	mg/kg	560	2.0	N.D.	N.D.	N.D.
Arsenic(As)	mg/kg	47	0.5	N.D.	N.D.	N.D.
Barium(Ba)	mg/kg	18750	50	N.D.	N.D.	N.D.
Boron(B)	mg/kg	15000	50	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	17	0.3	N.D.	N.D.	N.D.
Chromium (III) (Cr(III))	mg/kg	460	0.2	N.D.	N.D.	N.D.
Chromium (VI) (Cr(VI))	mg/kg	0.053	0.005	N.D.	N.D.	N.D.
Cobalt(Co)	mg/kg	130	2.5	N.D.	N.D.	N.D.
Copper(Cu)	mg/kg	7700	50	N.D.	N.D.	N.D.
Lead(Pb)	mg/kg	23	0.25	N.D.	N.D.	N.D.
Manganese(Mn)	mg/kg	15000	50	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	94	1.0	N.D.	N.D.	N.D.
Nickel(Ni)	mg/kg	930	10	N.D.	N.D.	N.D.
Selenium(Se)	mg/kg	460	5	N.D.	N.D.	N.D.
Strontium(Sr)	mg/kg	56000	50	N.D.	N.D.	N.D.
Tin(Sn)	mg/kg	180000	50	N.D.	N.D.	N.D.
Zinc(Zn)	mg/kg	46000	50	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

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## Migration of Certain Elements: Permissible Limit for Different Materials (Unit: mg/kg)

Item	Category III In scraped-off toy material	Category II In liquid or sticky toy material	Category I In dry, brittle, powder-like or pliable toy material
Aluminium (Al)	28130	560	2250
Antimony (Sb)	560	11.3	45
Arsenic (As)	47	0.9	3.8
Barium (Ba)	18750	375	1500
Boron (B)	15000	300	1200
Cadmium (Cd)	17	0.3	1.3
Chromium III(Cr(III))	460	9.4	37.5
Chromium VI (Cr(VI))	0.053	0.005	0.02
Cobalt (Co)	130	2.6	10.5
Copper (Cu)	7700	156	622.5
Lead (Pb)	23	0.5	2.0
Manganese (Mn)	15000	300	1200
Mercury (Hg)	94	1.9	7.5
Nickel (Ni)	930	18.8	75
Selenium (Se)	460	9.4	37.5
Strontium (Sr)	56000	1125	4500
Tin (Sn)	180000	3750	15000
Zinc (Zn)	46000	938	3750

Note:

- “-” = If less than 0,010 g of toy material can be obtained, it is not required to analyse.
- “\*” = For accessible glass, metal and ceramic toys or toy parts, if they are not small parts, the soluble test is not required.

**European Standard on Safety of Toys**
**- EN 71-3:2019+A1:2021: Migration of Certain Elements (Organic Tin)**

Test Methods and Equipment: EN 71-3:2019+A1:2021; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-1	1-2	1-7
Organic Tin	mg/kg	12	0.15	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

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## Migration of Certain Elements: Permissible Limit for Different Materials (Unit: mg/kg)

Item	Category III In scraped-off toy material	Category II In liquid or sticky toy material	Category I In dry, brittle, powder-like or pliable toy material
Organic Tin	12	0.2	0.9

Note:

1. “-” = If less than 0,010 g of toy material can be obtained, it is not required to analyse.
2. “\*” = For accessible glass, metal and ceramic toys or toy parts, if they are not small parts, the soluble test is not required.
3. Migration of organic tin is expressed as tributyl tin cation content in mg/kg.

**Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52**
**- Phthalates Content**

Test Methods and Equipment: IEC 62321-8:2017; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-17
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.
Sum of DIBP +DBP+BBP+DEHP	%	0.1	/	N.D.
Sum of DNOP+DINP+DIDP	%	0.1	/	N.D.
<b>Conclusion</b>				<b>Conformity</b>

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-17

## Limit requirements of Phthalates

Toys and childcare articles	Each of DEHP, DBP, BBP, DIBP is less than 0.1% or the sum of DEHP+DBP+BBP+DIBP is less than 0.1%
Toys and childcare articles which can be placed in the mouth by children	The sum of DINP+DIDP+DNOP is less than 0.1%

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**Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50**
**- Polycyclic-aromatic Hydrocarbons (PAHs) Content**

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-17
Benzo[a]pyrene(BaP)	mg/kg	0.5	0.1	N.D.
Benzo[e]pyrene(BeP)	mg/kg	0.5	0.1	N.D.
Benzo[a]anthracene(BaA)	mg/kg	0.5	0.1	N.D.
Benzo[b]fluoranthene(BbF)	mg/kg	0.5	0.1	N.D.
Benzo[j]fluoranthene(BjFA)	mg/kg	0.5	0.1	N.D.
Benzo[k]fluoranthene(BkF)	mg/kg	0.5	0.1	N.D.
Chrysene(CHR)	mg/kg	0.5	0.1	N.D.
Dibenzo[a,h]anthracene(DBA)	mg/kg	0.5	0.1	N.D.
Conclusion				Conformity

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-17

## Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

Items	CAS No.	Extender oils or used for the production of tyres or parts of tyres	Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity
Benzo[a]pyrene(BaP)	50-32-8	≤ 1	≤ 1	≤ 0.5
Benzo[e]pyrene(BeP)	192-97-2	/	≤ 1	≤ 0.5
Benzo[a]anthracene(BaA)	56-55-3	/	≤ 1	≤ 0.5
Benzo[b]fluoranthene(BbF)	205-99-2	/	≤ 1	≤ 0.5
Benzo[j]fluoranthene(BjFA)	205-82-3	/	≤ 1	≤ 0.5
Benzo[k]fluoranthene(BkF)	207-08-9	/	≤ 1	≤ 0.5
Chrysene(CHR)	218-01-9	/	≤ 1	≤ 0.5
Dibenzo[a,h]anthracene(DBA)	53-70-3	/	≤ 1	≤ 0.5
Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA	/	≤ 10	/	/

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**Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 5**

**- Benzene Content**

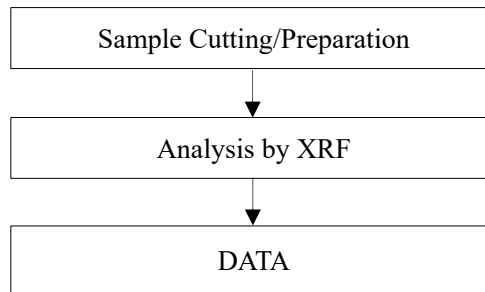
Test Methods and Equipment: EPA 3550C:2007 & EPA 8260D:2018; GC-FID

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-17
Benzene	mg/kg	5	5	N.D.
Conclusion				Conformity

Remark:

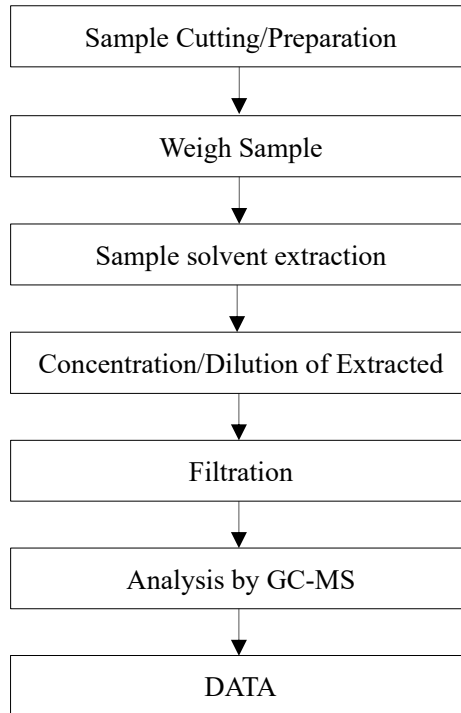
- As specified by client, the submitted samples were mixed to test, the test points: 1-17

**Test Flow Chart of XRF**



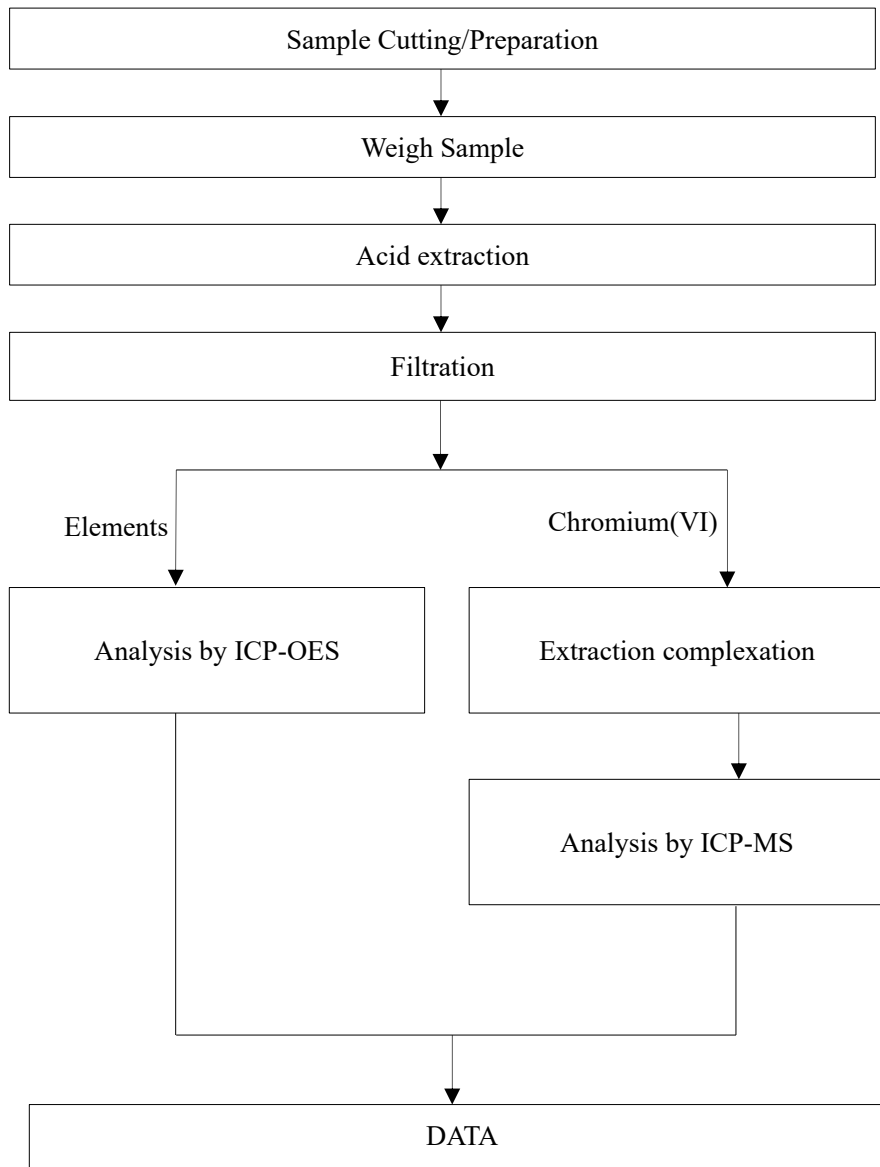
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### Test Flow Chart of Phthalates



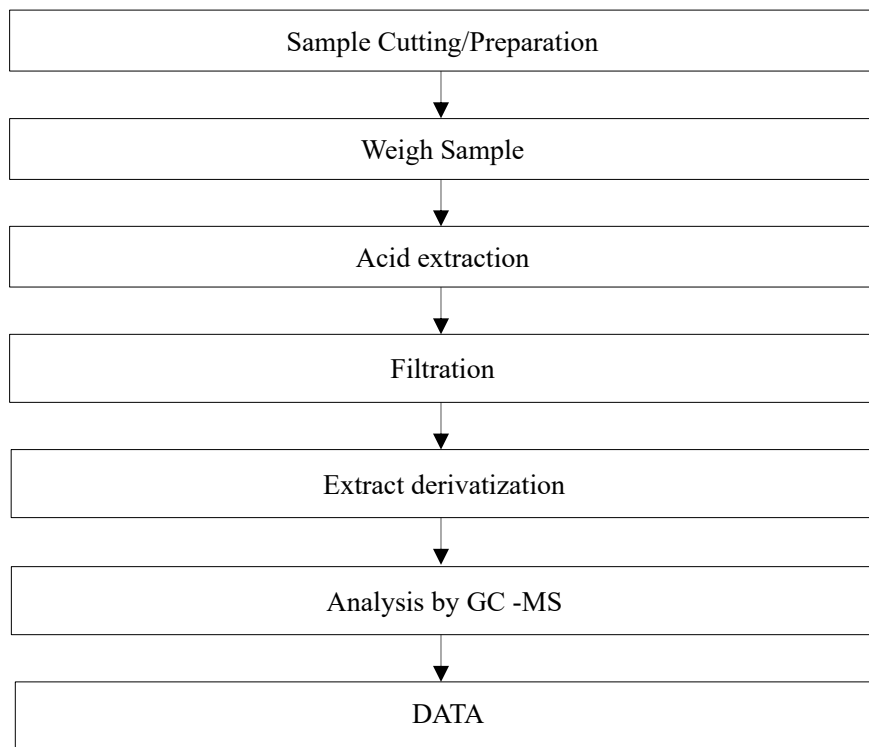
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### Test Flow Chart of Migration of Certain Elements



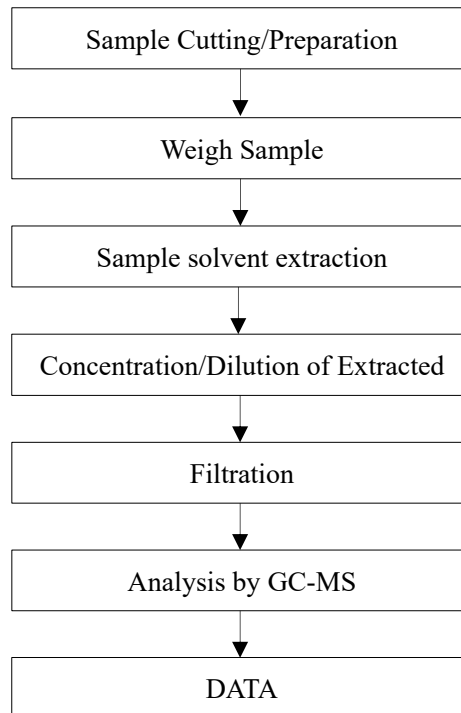
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### Test Flow Chart of Migration of Certain Elements (Organic Tin)



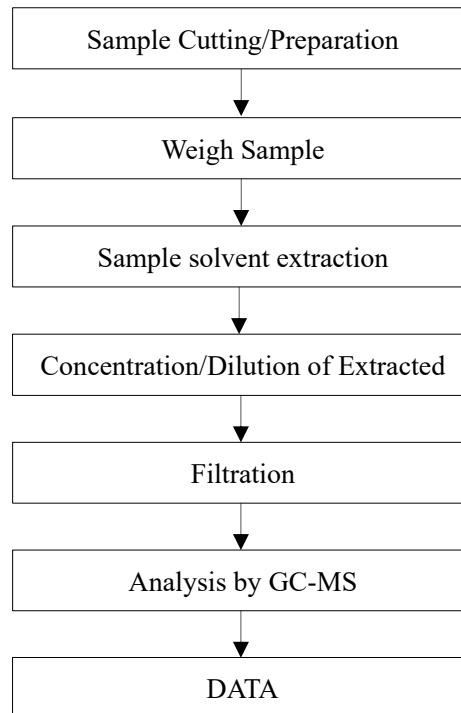
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### Test Flow Chart of Phthalates



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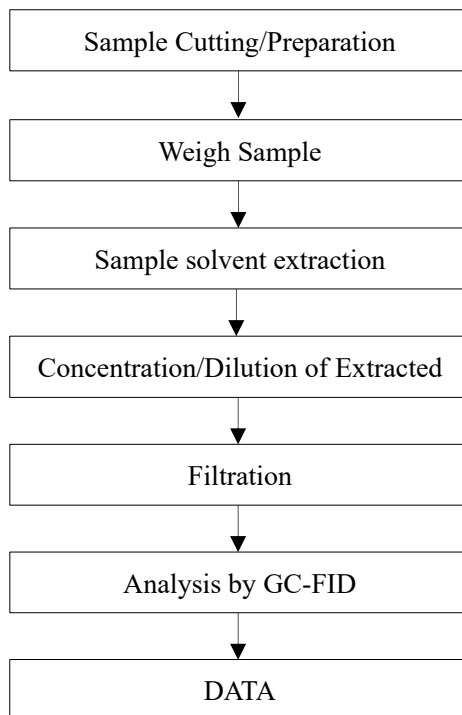
### Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



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### Test Flow Chart of Monoaromatic Hydrocarbons



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2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
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9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

\*\*\* End of Report \*\*\*

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# Test Report

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Report No. : AGC05443231037-002

**SAMPLE NAME** : YoYo with light  
**MODEL NAME** : IT3854  
**APPLICANT** : MID OCEAN BRANDS B.V  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Nov. 08, 2023

*Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.*



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Applicant : MID OCEAN BRANDS B.V  
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.  
Test Site : 5,6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

**Report on the submitted sample(s) said to be:**

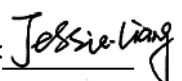
Sample Name : YoYo with light  
Model : IT3854  
Vendor code : 106613  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Rating(s) : 2\*1.5V LR41  
Labeled Age Grading : Not stated  
Requested Age Grading : 3+  
Age Group Applied in Testing : 3+  
Sample receiving state : Normal  
Sample Received Date : Oct. 25, 2023  
Testing Period : Oct. 25, 2023 to Nov. 07, 2023  
Test Requested : Selected test(s) as requested by client.

**Test Requested:**

EN IEC 62115:2020+A11:2020 European Standard Electric Toys – Safety

**Conclusion**

Pass

Approved by : 

Liangdan, Jessie.Liang

Technical Director

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std &amp; Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Nov. 08, 2023	Valid	Initial release

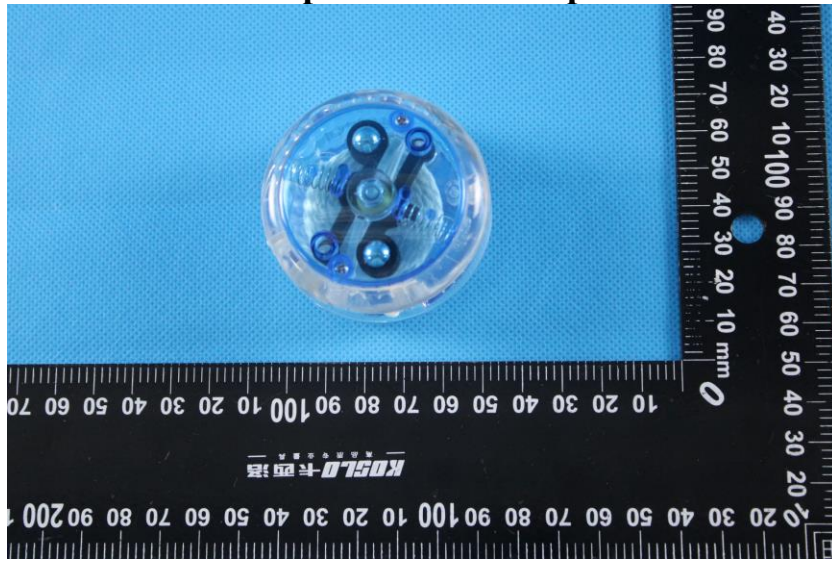
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**The photo of the sample**



The photo of AGC05443231037-002 is for use only with the original report.

**Test Point Description**

Test point	Test point description
1	YoYo with light

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**EN IEC 62115:2020+A11:2020 European Standard Electric Toys – Safety**

Clause	Requirement	Result
5.1	Preconditioning	--
6	CRITERIA FOR REDUCED TESTING	Pass
6.1	General	--
6.2	short-circuit resistance	N/A
6.3	Low power electric toys	N/A
6.4	Battery circuits	Pass
7	MARKINGS AND INSTRUCTIONS	Pass
7.1	General	Pass
7.2	Markings on electric toys	Pass
7.2.1	Identification	Pass
7.2.2	For electric toys with replaceable batteries	Pass
7.2.3	For transformer toys and power supply toys	N/A
7.2.4	Electric toys with more than one power supply	N/A
7.2.5	For toys incorporating detachable lamps	N/A
7.2.6	Symbols	N/A
7.2.7	Durability	Pass
7.3	Instructions and marking on packaging	Pass
7.3.1	General	N/A
7.3.2	Transformer toys and power supply toys	N/A
7.3.3	Electric toys that used with replaceable batteries	Pass
7.3.3.1	General	N/A
7.3.3.2	Coin batteries	N/A
7.3.3.3	Button batteries	Pass
7.4	Instructions for electric toys that can be connected to class I equipment	N/A
7.5	Instructions for ride-on electric toys	N/A
7.6	Temperature warnings	N/A
8	POWER INPUT	N/A
9	HEATING AND ABNORMAL OPERATION	N/A
9.1	General	N/A
9.2	Testing condition	N/A
9.3	Normal operation	N/A
9.4	Normal operation with insulation short-circuited	N/A
9.5	Abnormal operation with temperature controls made inoperable	N/A
9.6	Accessible moving parts locked	N/A
9.7	Additional transformers and power supplies	N/A
9.8	Abnormal supply to electric toys via a USB connection	N/A
9.9	Fault condition in electronic circuits	N/A
9.10	Compliance criteria	N/A
10	ELECTRIC STRENGTH	N/A
10.1	Electric strength at operating temperature	N/A
10.2	Electric strength under humid conditions	N/A
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	N/A
12	MECHANICAL STRENGTH	Pass
12.1	Enclosures	Pass
12.2	Attachment strength	Pass
13	CONSTRUCTION	Pass

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13.1	Nominal supply voltage	Pass
13.2	Transformers, power supplies and battery chargers	N/A
13.2.1	Mains connections	N/A
13.2.2	Electric toys for use in water or for use with liquid	N/A
13.2.3	Electric toys for children under the age of 3 years	N/A
13.3	Thermal cut-outs	N/A
13.4	Batteries	Pass
13.4.1	Small batteries	Pass
13.4.2	Other batteries	N/A
13.4.3	Electrolyte leakage	N/A
13.4.4	Electric toys placed above a child	N/A
13.4.5	Parallel connection of batteries	Pass
13.4.6	Battery compartment fasteners	Pass
13.5	Plug and sockets	N/A
13.6	Charging batteries	N/A
13.7	Series motors	N/A
13.8	Working voltage	N/A
13.9	Electric toys connecting to other equipment	N/A
13.10	Speed limitation of ride-on electric toys	N/A
14	PROTECTION OF CORDS AND WIRES	Pass
14.1	Edges and moving parts	Pass
14.2	Fixed parts	Pass
15	COMPONENTS	Pass
15.1.1	General	Pass
15.1.2	Switches and automatic controls	N/A
15.1.3	Other components	N/A
15.2	Prohibited components	Pass
15.3	For transformer toys and power supplies	N/A
15.4	Battery chargers	N/A
15.5	Batteries	Pass
16	SCREWS AND CONNECTIONS	Pass
16.1	Fixings	Pass
16.2	Connections	N/A
17	CREEPAGE DISTANCES AND CLEARANCES	N/A
18	RESISTANCE TO HEAT AND FIRE	N/A
18.1	Resistance to heat	N/A
18.2	Resistance to fire	N/A
18.2.2	Non-metallic parts	N/A
18.2.3	Insulating material	N/A
19	RADIATION, AND SIMILAR HAZARDS	Pass
19.1	General	Pass
19.2	Optical radiation	Pass
19.3	Other electromagnetic radiation	N/A

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Clause	Requirement	Result										
19.E.2	Light-emitting diodes (LEDs)	Pass										
This product's accessible emission has been tested according to clause 19.E.2 of EN IEC62115:2020+A11:2020 and found in compliance with the requirements of the standard.												
<table border="1"> <thead> <tr> <th>Test part</th> <th>Spectral region (Wavelength)</th> <th>Measured accessible emission</th> <th>Limit</th> <th>Assessment</th> </tr> </thead> <tbody> <tr> <td>LED</td> <td>637nm</td> <td>0.20212965cd</td> <td>38.4cd</td> <td>Pass</td> </tr> </tbody> </table>			Test part	Spectral region (Wavelength)	Measured accessible emission	Limit	Assessment	LED	637nm	0.20212965cd	38.4cd	Pass
Test part	Spectral region (Wavelength)	Measured accessible emission	Limit	Assessment								
LED	637nm	0.20212965cd	38.4cd	Pass								
19.E.3	Lasers	N/A										
19.E.4	UV-emitting lamps	N/A										
19.E.5	Modulated accessible emission	N/A										

Note
Per the client's requirement, the testing age grading is over 3 years of age
Evaluation only performed on the artwork, no practical packaging evaluated
Test result Clause 7.3.3.3 & Clause 13.4.6 were resubmitted sample on Nov.06, 2023.
<b>N/A=Not Applicable; N/T=Not Tested; -- = Don't need to Verdict</b>

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