

TEST REPORT

Applicant	Qbi Globe INC.
Address	10F.-3, No. 530, Yingcai Rd., West Dist., Taichung City 403518 , Taiwan (R.O.C.)
Manufacture	RICH EASY TECHNOLOGY ENTERPRISE CO., LTD.
Address	No. 75, Ln. 170, Sec. 4, Chongde Rd., Tanzi Dist., Taichung City 427020, Taiwan (R.O.C.)
Sample Name	Qbi Play Starter - Fun & Learn (Prime Edition)
Model	135
Labeled Age Grading	3+ years old
Requested Age Grade	3+ years old
Tested Age Grading	3+ years old
Trademark	Qbi
Date of Receipt	Nov. 03, 2025
Date of Test	Nov. 03, 2025 to Nov. 07, 2025
Date of Report	Nov. 07, 2025
Test laboratory	Guangdong KAIXU Testing Technology Co., Ltd.
Test location	Room 215, Building 2, No. 123, Dongcheng Section, Guanlong Road, Dongcheng Street, Dongguan City, Guangdong Province, China

Test Conclusion:

Test Requested	Result
As requested by the applicant, refer to attached page(s) for details.	See next page

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

Signed for and on behalf of KAIXU Test International

Tested by: Cathy

Approved by: Martin

Summary of Test Results:

No.	Test Standard	Conclusion
1	EN 71-1:2014+A1:2018 Safety of toys Part 1: Mechanical and physical properties	Pass
2	Labeling requirements of “CE marking, manufacturer/importer name and address, and product identification” under “Directive 2009/48/EC Safety of Toy”.	Pass
3	EN 71-2:2020 Safety of toys - Part 2: Flammability	Pass
4	EN 71-3:2019+A2:2024 Safety of toys - Part 3: Migration of certain elements	Pass
5	BS EN 71-1:2014+A1:2018 Safety of toys - Part 1: Mechanical and physical properties	Pass
6	Labeling requirements of “UKCA mark & UK Toys (Safety) Regulation 2011 labeling”.	Pass
7	BS EN 71-2:2020+A1:2025 Safety of toys - Part 2: Flammability	Pass
8	BS EN 71-3:2019+A2:2024 Safety of toys - Part 3: Migration of certain elements	Pass
9	Annex XVII of REACH Regulation (EC) No. 1907/2006 & amended Regulation (EU) No 552/2009, Regulation (EU) No 207/2011, Regulation (EU) No 126/2013, Regulation (EU) No 2020/2096 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Entry 51 &52- -Phthalates Entry 63- Total Lead (Pb) Entry 23- Total Cadmium (Cd)	Pass

Test Result(s):
1.Mechanical and physical properties– EN71-1:2014+A1:2018

Clause	Test Request	Result(s)	Verdict
4	General requirements		
4.1	Material cleanliness	M	Pass
4.2	Assembly	NA	/
4.3	Flexible plastic sheeting	NA	/
4.4	Toy bags	NA	/
4.5	Glass	NA	/
4.6	Expanding materials	NA	/
4.7	Edges	M	Pass
4.8	Points and metallic wires	M	Pass
4.9	Protruding parts	NA	/
4.10	Parts moving against each other		
4.10.1	Folding and sliding mechanisms	NA	/
4.10.2	Driving mechanisms	NA	/
4.10.3	Hinges	NA	/
4.10.4	Springs	NA	/
4.11	Mouth-actuated toys and other toys inter to be put in the mouth	NA	/
4.12	Balloons	NA	/
4.13	Cords of toy kites and other flying toys	NA	/
4.14	Enclosures		
4.14.1	Toy which a child can enter	NA	/
4.14.2	Masks and helmets	NA	/
4.15	Toys intended to bear the mass of a child		
4.15.1	Toys propelled by a child or by other means	NA	/
4.15.2	Toy bicycles	NA	/
4.15.3	Rocking horses and similar toys	NA	/
4.15.4	Toys not propelled by child	NA	/
4.15.5	Toy scooters	NA	/
4.16	Heavy immobile toys	NA	/
4.17	Projectile toys		
4.17.1	General	NA	/
4.17.2	All projectiles	NA	/

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Clause	Test Request	Result(s)	Verdict
4.17.3	Projectile toys with stored energy	NA	/
4.17.4	Certain projectile toys without stored energy	NA	/
4.18	Aquatic toys a inflatable toys	NA	/
4.19	Percussion caps specifically designed for use in toys a toys using percussion caps	NA	/
4.20	Acoustics	NA	/
4.21	Toys containing a non-electrical heat source	NA	/
4.22	Small balls	NA	/
4.23	Magnets	M	Pass
4.24	Yo-yo balls	NA	/
4.25	Toys attached to food	NA	/
4.26	Toy disguise costumes	NA	/
4.27	Flying toys	NA	/
5	Toys intended for children under 36 months		
5.1	General requirements	NA	/
5.2	Soft-filled toys and soft-filled parts of a toy	NA	/
5.3	Plastic sheeting	NA	/
5.4	Cords, chains and electrical cables in toys	NA	/
5.5	Liquid-filled toys	NA	/
5.6	Speed limitation of electrically-driven ride-on toys	NA	/
5.7	Glass and porcelain	NA	/
5.8	Shape and size of certain toys	NA	/
5.9	Toy comprising monofilament fiber	NA	/
5.10	Small balls	NA	/
5.11	Play figures	NA	/
5.12	Hemispheric-shaped toys	NA	/
5.13	Suction cups	NA	/
5.14	Straps intended to be worn fully or partially around the neck	NA	/
5.15	Sledges with cords for pulling	NA	/
6	Packaging	M	Pass
7	Warning, marking and instructions for use		
7.1	General	M	Pass
7.2	Toys not intended for children under 36 months	M	Pass

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Clause	Test Request	Result(s)	Verdict
7.3	Latex balloons	NA	/
7.4	Aquatic toys	NA	/
7.5	Functional toys	NA	/
7.6	Hazardous sharp functional edges and points	NA	/
7.7	Projectile toys	NA	/
7.8	Imitation protective masks and helmets	NA	/
7.9	Toy kites	NA	/
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA	/
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA	/
7.12	Liquid-filled teethingers	NA	/
7.13	Percussion caps specifically designed for use in toys	NA	/
7.14	Acoustics	NA	/
7.15	Toy bicycles	NA	/
7.16	Toys intended to bear the mass of a child	NA	/
7.17	Toys comprising monofilament fibers	NA	/
7.18	Toy scooters	NA	/
7.19	Rocking horses and similar toys	NA	/
7.20	Magnetic/electrical experimental sets	NA	/
7.21	Toys with electrical cables exceeding 300 mm in length	NA	/
7.22	Toys with cords or chains intended for children of 18 months and over but under 36months	NA	/
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA	/
7.24	Sledges with cords for pulling	NA	/
7.25	Flying toys	NA	/
7.26	Improvised projectiles	NA	/

Note:

1. M = Meet NA = Not Applicable

2. 2009/48/EC general labeling requirement

Requirement	Result(s)	Verdict
CE Mark	M	Pass
Manufacturer/importer name and address	M	Pass
Product identification	M	Pass

Note:

1. M = Meet

3.Flammability –EN 71-2:2020 +A1:2025

Clause	Test request	Result(s)	Verdict
4	Requirement		
4.1	Cellulose nitrate	M	Pass
4.1	Highly flammable solids	M	Pass
4.1	Surface flash on a piled surface	NA	/
4.1	Flammable gases	NA	/
4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA	/
4.2	Toys to be worn on the head	NA	/
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA	/
4.3	warning on product and packaging (10 - 30 mm/s)	NA	/
4.4	Toys intended to be entered by child	NA	/
4.4	warning on product and packaging (10 - 30 mm/s)	NA	/
4.5	Soft-filled toys	NA	/

Note:

1. M = Meet NA = Not Applicable

4. Migration of Certain Elements - EN 71-3:2019+A2:2024

Test Method: EN 71-3:2019+A2:2024, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item(s)	MDL	Unit	Result(s)				
			No.1	No.2	No.3	No.4	No.5
Soluble Aluminium (Al)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Antimony(Sb)	1.0	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Arsenic(As)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Barium(Ba)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Boron(B)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Cadmium(Cd)	0.3	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Chromium(III)(Cr III)	5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Chromium(VI) (Cr VI)	0.005	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Cobalt(Co)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Copper(Cu)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Lead(Pb)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Manganese(Mn)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Mercury(Hg)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Nickel(Ni)	10	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Selenium(Se)	0.08	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Strontium(Sr)	5.0	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Tin(Sn)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Organic Tin	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Zinc(Zn)	0.08	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.

Test Item(s)	MDL	Unit	Result(s)			
			No.6	No.7	No.8	No.9
Soluble Aluminium (Al)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Antimony(Sb)	1.0	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Arsenic(As)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Barium(Ba)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Boron(B)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Cadmium(Cd)	0.3	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Chromium(III)(Cr III)	5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Chromium(VI) (Cr VI)	0.005	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Cobalt(Co)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Copper(Cu)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Lead(Pb)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Manganese(Mn)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Mercury(Hg)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Nickel(Ni)	10	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Selenium(Se)	0.08	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Strontium(Sr)	5.0	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Tin(Sn)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Organic Tin	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Zinc(Zn)	0.08	mg/kg	N.D.	N.D.	N.D.	N.D.

Organic Tin Test

Test Item(s)	Unit	MDL	Limit	Result(s)				
				No.1	No.2	No.3	No.4	No.5
Methyltin	mg/kg	0.5	12	N.D.	N.D.	N.D.	N.D.	N.D.
Dimethyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Butyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Tributyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Monooctyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Diocetyl tin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Dipropyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabutyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Diphenyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Triphenyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.

Test Item(s)	Unit	MDL	Limit	Result(s)			
				No.6	No.7	No.8	No.9
Methyltin	mg/kg	0.5	12	N.D.	N.D.	N.D.	N.D.
Dimethyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Butyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Tributyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Monooctyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Diocetyl tin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Dibutyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Dipropyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Tetrabutyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Diphenyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Triphenyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.

Note:

1. mg/kg= ppm;
2. N.D. =Not Detected (<MDL);
3. MDL =Method Detection Limit.

Cross-Reference Table for Determining Category

Toy Material	Category I	Category II	Category III
Coatings of paints, varnishes, lacquers, printing inks, polymers, foams and similar coatings			X
Polymeric and similar materials, including laminates, whether textile reinforced or not, but excluding other textiles			X
Paper and paper board			X
Textiles, whether natural or synthetic			X
Glass, ceramic, metallic materials			X
Wood, fibre board, hard board, bone, leather and other solid materials			X
Compressed paint tablets, materials intended to leave a trace or similar materials in solid form appearing as such in the toy (e.g. the cores of colouring pencils, chalk, crayons)	X		
Pliable modelling materials, including modelling clays and plaster	X		
Liquid paints, including finger paints, varnishes, lacquers, liquid ink in pens and similar materials in liquid form appearing as such in the toy (e.g. slimes, bubble solution)		X	
Glue sticks		X	

Migration Limits from Toy Materials

Element	Migration Limit		
	Category I(mg/kg)	Category II(mg/kg)	Category III(mg/kg)
Aluminium	2250	560	28130
Antimony	45	11.3	560
Arsenic	3.8	0.9	47
Barium	1500	375	18750
Boron	1200	300	15000
Cadmium	1.3	0.3	17
Chromium (III)	37.5	9.4	460
Chromium (VI)	0.02	0.005	0.053
Cobalt	10.5	2.6	130
Copper	622.5	156	7700
Lead	2.0	0.5	23
Manganese	1 200	300	15 000
Mercury	7.5	1.9	94
Nickel	75	18.8	930
Selenium	37.5	9.4	460
Strontium	4500	1125	56000
Tin	15000	3750	180000
Organic Tin	0.9	0.2	12
Zinc	3750	938	46000
Note: The Migration Limits for Aluminium Have Been Amended by Commission Directive (EU) 2019/1922			

5. Mechanical and physical properties – BS EN 71-1:2014+A1:2018

Clause	Test request	Result(s)	Verdict
4	General requirements		
4.1	Material cleanliness	M	Pass
4.2	Assembly	NA	/
4.3	Flexible plastic sheeting	NA	/
4.4	Toy bags	NA	/
4.5	Glass	NA	/
4.6	Expanding materials	NA	/
4.7	Edges	M	Pass
4.8	Points and metallic wires	M	Pass
4.9	Protruding parts	NA	/
4.10	Parts moving against each other		
4.10.1	Folding and sliding mechanisms	NA	/
4.10.2	Driving mechanisms	NA	/
4.10.3	Hinges	NA	/
4.10.4	Springs	NA	/
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA	/
4.12	Balloons	NA	/
4.13	Cords of toy kites and other flying toys	NA	/
4.14	Enclosures		
4.14.1	Toy which a child can enter	NA	/
4.14.2	Masks and helmets	NA	/
4.15	Toys intended to bear the mass of a child		
4.15.1	Toys propelled by a child or by other means	NA	/
4.15.2	Toy bicycles	NA	/
4.15.3	Rocking horses and similar toys	NA	/
4.15.4	Toys not propelled by child	NA	/
4.15.5	Toy scooters	NA	/
4.16	Heavy immobile toys	NA	/
4.17	Projectile toys		
4.17.1	General	NA	/
4.17.2	All projectiles	NA	/
4.17.3	Projectile toys with stored energy	NA	/

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Clause	Test request	Result(s)	Verdict
4.17.4	Certain projectile toys without stored energy	NA	/
4.18	Aquatic toys and inflatable toys	NA	/
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA	/
4.20	Acoustics	NA	/
4.21	Toys containing a non-electrical heat source	NA	/
4.22	Small balls	NA	/
4.23	Magnets	M	Pass
4.24	Yo-yo balls	NA	/
4.25	Toys attached to food	NA	/
4.26	Toy disguise costumes	NA	/
4.27	Flying toys	NA	/
5	Toys intended for children under 36 months		
5.1	General requirements	NA	/
5.2	Soft-filled toys and soft-filled parts of a toy	NA	/
5.3	Plastic sheeting	NA	/
5.4	Cords, chains and electrical cables in toys	NA	/
5.5	Liquid-filled toys	NA	/
5.6	Speed limitation of electrically-driven ride-on toys	NA	/
5.7	Glass and porcelain	NA	/
5.8	Shape and size of certain toys	NA	/
5.9	Toy comprising monofilament fiber	NA	/
5.10	Small balls	NA	/
5.11	Play figures	NA	/
5.12	Hemispheric-shaped toys	NA	/
5.13	Suction cups	NA	/
5.14	Straps intended to be worn fully or partially around the neck	NA	/
5.15	Sledges with cords for pulling	NA	/
6	Packaging	M	Pass
7	Warning, marking and instructions for use		
7.1	General	M	Pass
7.2	Toys not intended for children under 36 months	M	Pass
7.3	Latex balloons	NA	/
7.4	Aquatic toys	NA	/

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Clause	Test request	Result(s)	Verdict
7.5	Functional toys	NA	/
7.6	Hazardous sharp functional edges and points	NA	/
7.7	Projectile toys	NA	/
7.8	Imitation protective masks and helmets	NA	/
7.9	Toy kites	NA	/
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA	/
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA	/
7.12	Liquid-filled teethingers	NA	/
7.13	Percussion caps specifically designed for use in toys	NA	/
7.14	Acoustics	NA	/
7.15	Toy bicycles	NA	/
7.16	Toys intended to bear the mass of a child	NA	/
7.17	Toys comprising monofilament fibers	NA	/
7.18	Toy scooters	NA	/
7.19	Rocking horses and similar toys	NA	/
7.20	Magnetic/electrical experimental sets	NA	/
7.21	Toys with electrical cables exceeding 300 mm in length	NA	/
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA	/
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA	/
7.24	Sledges with cords for pulling	NA	/
7.25	Flying toys	NA	/
7.26	Improvised projectiles	NA	/

Note:

M = Meet NA = Not Applicable

6. UKCA mark & UK Toys (Safety) Regulation 2011 labeling

Requirement	Result(s)	Verdict
UKCA Marking	M	Pass
Company name and UK address	M	Pass
Product identification	M	Pass

Note:

1. M = Meet

7. Flammability – BS EN 71-2:2020

Clause	Test request	Result(s)	Verdict
4	Requirement		
4.1	Cellulose nitrate	M	Pass
4.1	Highly flammable solids	M	Pass
4.1	Surface flash on a piled surface	NA	/
4.1	Flammable gases	NA	/
4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA	/
4.2	Toys to be worn on the head	NA	/
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA	/
4.3	warning on product and packaging (10 - 30 mm/s)	NA	/
4.4	Toys intended to be entered by child	NA	/
4.4	warning on product and packaging (10 - 30 mm/s)	NA	/
4.5	Soft-filled toys	NA	/

Note:

1. M = Meet NA = Not Applicable

8. Migration of Certain Elements - BS EN 71-3:2019+A2:2024

Test Method: BS EN 71-3:2019+A2:2024, analysis was performed by f Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item(s)	MDL	Unit	Result(s)				
			No.1	No.2	No.3	No.4	No.5
Soluble Aluminium (Al)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Antimony(Sb)	1.0	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Arsenic(As)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Barium(Ba)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Boron(B)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Cadmium(Cd)	0.3	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Chromium(III)(Cr III)	5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Chromium(VI) (Cr VI)	0.005	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Cobalt(Co)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Copper(Cu)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Lead(Pb)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Manganese(Mn)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Mercury(Hg)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Nickel(Ni)	10	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Selenium(Se)	0.08	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Strontium(Sr)	5.0	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Tin(Sn)	50	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Organic Tin	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Zinc(Zn)	0.08	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.

Test Item(s)	MDL	Unit	Result(s)			
			No.6	No.7	No.8	No.9
Soluble Aluminium (Al)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Antimony(Sb)	1.0	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Arsenic(As)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Barium(Ba)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Boron(B)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Cadmium(Cd)	0.3	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Chromium(III)(Cr III)	5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Chromium(VI) (Cr VI)	0.005	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Cobalt(Co)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Copper(Cu)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Lead(Pb)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Manganese(Mn)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Mercury(Hg)	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Nickel(Ni)	10	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Selenium(Se)	0.08	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Strontium(Sr)	5.0	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Tin(Sn)	50	mg/kg	N.D.	N.D.	N.D.	N.D.
Organic Tin	0.5	mg/kg	N.D.	N.D.	N.D.	N.D.
Soluble Zinc(Zn)	0.08	mg/kg	N.D.	N.D.	N.D.	N.D.

Organic Tin Test

Test Item(s)	Unit	MDL	Limit	Result(s)				
				No.1	No.2	No.3	No.4	No.5
Methyltin	mg/kg	0.5	12	N.D.	N.D.	N.D.	N.D.	N.D.
Dimethyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Butyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Tributyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Monooctyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Diocetyl tin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Dipropyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabutyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Diphenyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.
Triphenyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.	N.D.

Test Item(s)	Unit	MDL	Limit	Result(s)			
				No.6	No.7	No.8	No.9
Methyltin	mg/kg	0.5	12	N.D.	N.D.	N.D.	N.D.
Dimethyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Butyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Tributyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Monooctyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Diocetyl tin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Dibutyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Dipropyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Tetrabutyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Diphenyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.
Triphenyltin	mg/kg	0.5		N.D.	N.D.	N.D.	N.D.

Note:

1. mg/kg= ppm;
2. N.D. =Not Detected (<MDL);
3. MDL =Method Detection Limit.

Cross-Reference Table for Determining Category

Toy Material	Category I	Category II	Category III
Coatings of paints, varnishes, lacquers, printing inks, polymers, foams and similar coatings			X
Polymeric and similar materials, including laminates, whether textile reinforced or not, but excluding other textiles			X
Paper and paper board			X
Textiles, whether natural or synthetic			X
Glass, ceramic, metallic materials			X
Wood, fibre board, hard board, bone, leather and other solid materials			X
Compressed paint tablets, materials intended to leave a trace or similar materials in solid form appearing as such in the toy (e.g. the cores of colouring pencils, chalk, crayons)	X		
Pliable modelling materials, including modelling clays and plaster	X		
Liquid paints, including finger paints, varnishes, lacquers, liquid ink in pens and similar materials in liquid form appearing as such in the toy (e.g. slimes, bubble solution)		X	
Glue sticks		X	

Migration Limits from Toy Materials

Element	Migration Limit		
	Category I(mg/kg)	Category II(mg/kg)	Category III(mg/kg)
Aluminium	2250	560	28130
Antimony	45	11.3	560
Arsenic	3.8	0.9	47
Barium	1500	375	18750
Boron	1200	300	15000
Cadmium	1.3	0.3	17
Chromium (III)	37.5	9.4	460
Chromium (VI)	0.02	0.005	0.053
Cobalt	10.5	2.6	130
Copper	622.5	156	7700
Lead	2.0	0.5	23
Manganese	1 200	300	15 000
Mercury	7.5	1.9	94
Nickel	75	18.8	930
Selenium	37.5	9.4	460
Strontium	4500	1125	56000
Tin	15000	3750	180000
Organic Tin	0.9	0.2	12
Zinc	3750	938	46000
Note: The Migration Limits for Aluminium Have Been Amended by Commission Directive (EU) 2019/1922			

9. Entry 51 &52 of the Annex XVII of REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009 (Namely former Directive 2005/84/EC).

Phthalates

Method: ISO 8124-6:2018, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	CAS No.	MDL (mg/kg)	Limit (mg/kg)	Results (mg/kg)				
				No.1	No.2	No.3	No.4	No.5
DBP	84-74-2	50	/	N.D.	N.D.	N.D.	N.D.	N.D.
BBP	85-68-7	50	/	N.D.	N.D.	N.D.	N.D.	N.D.
DEHP	117-81-7	50	/	N.D.	N.D.	N.D.	N.D.	N.D.
DIBP	84-69-5	50	/	N.D.	N.D.	N.D.	N.D.	N.D.
DBP+BBP+DEHP+DIBP	/	/	≤1000	/				
DNOP	117-84-0	50	/	N.D.	N.D.	N.D.	N.D.	N.D.
DINP	68515-48-0 28553-12-0	100	/	N.D.	N.D.	N.D.	N.D.	N.D.
DIDP	26761-40-0 68515-49-1	100	/	N.D.	N.D.	N.D.	N.D.	N.D.
DNOP+DINP+DIDP	/	/	≤1000	/				
Conclusion				PASS				

Substances	CAS No.	MDL (mg/kg)	Limit (mg/kg)	Results (mg/kg)			
				No.6	No.7	No.8	No.9
DBP	84-74-2	50	/	N.D.	N.D.	N.D.	N.D.
BBP	85-68-7	50	/	N.D.	N.D.	N.D.	N.D.
DEHP	117-81-7	50	/	N.D.	N.D.	N.D.	N.D.
DIBP	84-69-5	50	/	N.D.	N.D.	N.D.	N.D.
DBP+BBP+DEHP+DIBP	/	/	≤1000	/			
DNOP	117-84-0	50	/	N.D.	N.D.	N.D.	N.D.
DINP	68515-48-0 28553-12-0	100	/	N.D.	N.D.	N.D.	N.D.
DIDP	26761-40-0 68515-49-1	100	/	N.D.	N.D.	N.D.	N.D.
DNOP+DINP+DIDP	/	/	≤1000	/			
Conclusion				PASS			

Note:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< MDL).
3. MDL = Method Detection Limit.
4. The DBP, DEHP, BBP and DIBP shall not be used as substances or in mixtures, in concentrations greater than 1000mg/kg by weight of the plasticised material, in toys and childcare articles. The DINP, DIDP and DNOP shall not be used as substances or in mixtures, in concentrations greater than 1000mg/kg by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

Entry 63 of Annex XVII of European Regulation (EC) No 1907/2006, No 552/2009 and No 494/2011 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)**Total Lead content**

Method: with reference to IEC 62321-5:2013, was analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	MDL (mg/kg)	Limit(mg/kg)	Result (mg/kg)	Conclusion
1	5	500	N.D.	PASS
2	5	500	N.D.	PASS
3	5	500	N.D.	PASS
4	5	500	N.D.	PASS
5	5	500	N.D.	PASS
6	5	500	N.D.	PASS
7	5	500	N.D.	PASS
8	5	500	N.D.	PASS
9	5	500	N.D.	PASS

Note:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< MDL).
3. MDL = Method Detection Limit.

Entry 23 of the Annex XVII of REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009**Total Cadmium content**

Method: with reference to IEC 62321-5:2013, was analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	MDL (mg/kg)	Limit(mg/kg)	Result (mg/kg)	Conclusion
1	5	100	N.D.	PASS
2	5	100	N.D.	PASS
3	5	100	N.D.	PASS
4	5	100	N.D.	PASS
5	5	100	N.D.	PASS
6	5	100	N.D.	PASS
7	5	100	N.D.	PASS
8	5	100	N.D.	PASS
9	5	100	N.D.	PASS

Note:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< MDL).
3. MDL = Method Detection Limit.

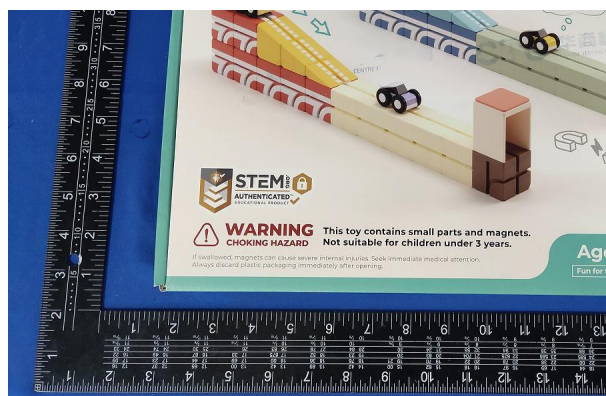
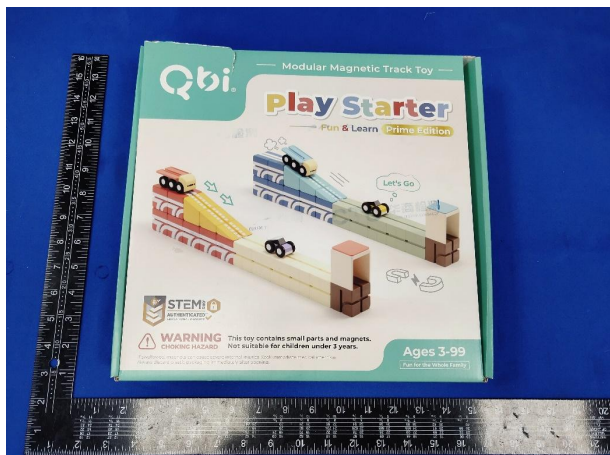
Sample Description:

Material No.	Description
1	Blue Plastic
2	Green Plastic
3	Red Plastic
4	Purple Plastic
5	White Plastic
6	Yellow Plastic
7	Black Plastic
8	Brown Plastic
9	Paper

Tested sample photos



This test report is limited to the above client company and the product model only. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. It may not be duplicated without prior written consent of Guangdong KAIXU Testing Technology Co., Ltd.



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