



TEST REPORT

REPORT No.: DTI2025TY150117-3-2

Date: 2025-01-23

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Applicant Company Name: Hangzhou Times Industrial Co., Ltd.

Applicant Company Address: No.8, Dongshun Road, Yuqian Town, Lin'an District, Hangzhou, Zhejiang, China

Report on the submitted samples said to be:

Sample Name : Intelligent Toy
Sample No. : Intelligent Toy Series
Tested Age Grade : Over 3 years
Labeled Age Grading : 3+
Appropriate Age Grade : Over 3 years
Sample Receiving Date : January 17, 2025
Testing Period : From January 17, 2025 to January 23, 2025
Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

- A European Standard on Safety of Toys
1. EN 71-1:2014+A1:2018 - Mechanical and Physical Properties
 2. EN 71-2:2020 - Flammability
 3. EN 71-3:2019+A1:2021 - Migration of Certain Elements

CONCLUSION

Pass

Pass

Pass

Shenzhen Deesev Testing International Corp

Approved by: _____

lab manager



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Results:

A.1. EN 71-1:2014+A1:2018 Mechanical and physical properties

Section	Description	Result
4 General Requirements		
4.1	Material	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	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	NA
4.10	Parts moving against each other	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	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	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 Maximum magnetic flux:120.1kG ² mm ² After abuse testing, the magnet did not loosen as a separate small object	Pass
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toys Disguise Costumes	NA
4.27	Flying toys	NA

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Section	Description	Result
5 Toys intended for children under 36 months		
5.1	General requirements	NA
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	NA
5.1b	Torque test (Test method 8.3)	NA
	Tension test (Test method 8.4)	NA
	Drop test (Test method 8.5)	NA
	Tip over test (Test method 8.6)	NA
	Impact test (Test method 8.7)	NA
	Compression test (Test method 8.8)	NA
	Sharp edge (Test method 8.11)	NA
	Sharp point (Test method 8.12)	NA
	Flexure Test(Test method 8.13)	NA
	Tension test for magnet (Test method 8.34)	NA
5.1c	Potential hazardous metal points and wires with a cross section of 2mm or less	NA
5.1d	Large and bulky toys	NA
5.1e	Glued wooden toys and toys with glued on plastic decals	NA
5.1f	The casing of toys intended for children too young to sit up unaided	NA
5.1g	Foam toys and toys containing accessible foam components	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	Toys comprising monofilament fibres	NA

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Section	Description	Result
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
6 Packaging		NA
7 Warnings, markings and instructions for use		
7	CE Mark	Pass
7	Manuafaclurer name and address	Pass
7	Importer name and address	Pass
7	Product Identification	Pass
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass
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	Projectiles	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 teethers	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 fibres	NA

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Section	Description	Result
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

-- NA = Not Applicable

-- NE = Not Evaluated

A.2. EN 71-2:2020-Flammability

Section	Description	Result
4	Requirements	
4.1	General	Pass
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys (animals and dolls etc.) with a piled or textile surface	NA

NA = Not Applicable

Note: In accordance with the EN 71-2, the burning rate should not be greater than 30mm per second.

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A.3.EN 71-3:2019+A1:2021 – Migration of Certain Elements Tests

Test method: Preparation of the sample and migration procedure with reference to EN 71-3:2019+A1:2021, metal elements analysis is performed by Inductively Coupled Argon Plasma Spectrometer (ICP-OES)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS) , organic tins analysis is performed by Gas Chromatography- (GC/MS) Mass Spectrometer and Cr (III) and Cr(VI) analysis is performed by Ion Chromatograph-Inductively Coupled Plasma Mass Spectrometer (IC-ICP-MS)

Results:

Description for specimen:

- | | | | |
|----|--|----|--|
| 1 | Green Transparent Plastic - Square | 12 | Orange Transparent Plastic - Square |
| 2 | Cyan Transparent Plastic - Triangle | 13 | Deep Orange Transparent Plastic - Triangle |
| 3 | Red Transparent Plastic - Triangle | 14 | Light Blue Transparent Plastic - Square |
| 4 | Yellow Transparent Plastic - Square | 15 | Purple Plastic - Owl |
| 5 | Light Yellow Transparent Plastic - Semi-Circular | 16 | Green Plastic - Gear |
| 6 | Black Transparent Plastic - Semi-Circular | 17 | Orange Plastic - Gear |
| 7 | White Transparent Plastic - Semi-Circular | 18 | Yellow Plastic - Dog |
| 8 | Purple Transparent Plastic - Square | 19 | Blue Plastic - Smiling Face |
| 9 | Blue Transparent Plastic - Hexagonal | 20 | Multi Colored Stickers |
| 10 | Black Plastic Board | 21 | White Coating - Dog |
| 11 | Dark Yellow Transparent Plastic - Hexagonal | | |

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Test item(s)	Unit	Results					MDL	Permissible Limit
		1*	2*	3*	4*	5*		
Soluble Aluminium (Al)	mg/kg	ND	ND	ND	ND	ND	50	See the next remarks
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	2.0	
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	0.5	
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Boron (B)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	0.3	
Soluble Chromium III(Cr ³⁺)	mg/kg	ND	ND	ND	ND	ND	0.2	
Soluble Chromium VI(Cr ⁶⁺)	mg/kg	ND	ND	ND	ND	ND	0.005	
Soluble Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	2.5	
Soluble Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	0.25	
Soluble Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	1.0	
Soluble Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	10	
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	5	
Soluble Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	0.15	
Soluble Organic Tin	mg/kg	ND	ND	ND	ND	ND	0.1	
Soluble Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	50	
Conclusion	/	Pass	Pass	Pass	Pass	Pass	/	/

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Test item(s)	Unit	Results					MDL	Permissible Limit
		6*	7*	8*	9*	10*		
Soluble Aluminium (Al)	mg/kg	ND	ND	ND	ND	ND	50	See the next remarks
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	2.0	
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	0.5	
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Boron (B)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	0.3	
Soluble Chromium III(Cr ³⁺)	mg/kg	ND	ND	ND	ND	ND	0.2	
Soluble Chromium VI(Cr ⁶⁺)	mg/kg	ND	ND	ND	ND	ND	0.005	
Soluble Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	2.5	
Soluble Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	0.25	
Soluble Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	1.0	
Soluble Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	10	
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	5	
Soluble Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	0.15	
Soluble Organic Tin	mg/kg	ND	ND	ND	ND	ND	0.1	
Soluble Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	50	
Conclusion	/	Pass	Pass	Pass	Pass	Pass	/	/

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Test item(s)	Unit	Results					MDL	Permissible Limit
		11*	12*	13*	14*	15*		
Soluble Aluminium (Al)	mg/kg	ND	ND	ND	ND	ND	50	See the next remarks
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	2.0	
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	0.5	
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Boron (B)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	0.3	
Soluble Chromium III(Cr ³⁺)	mg/kg	ND	ND	ND	ND	ND	0.2	
Soluble Chromium VI(Cr ⁶⁺)	mg/kg	ND	ND	ND	ND	ND	0.005	
Soluble Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	2.5	
Soluble Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	0.25	
Soluble Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	1.0	
Soluble Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	10	
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	5	
Soluble Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	50	
Soluble Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	0.15	
Soluble Organic Tin	mg/kg	ND	ND	ND	ND	ND	0.1	
Soluble Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	50	
Conclusion	/	Pass	Pass	Pass	Pass	Pass	/	/

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Test item(s)	Unit	Results						MDL	Permissible Limit
		16*	17*	18*	19*	20*	21*		
Soluble Aluminium (Al)	mg/kg	ND	ND	ND	ND	ND	ND	50	See the next remarks
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND	2.0	
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND	0.5	
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND	50	
Soluble Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND	50	
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND	0.3	
Soluble Chromium III(Cr ³⁺)	mg/kg	ND	ND	ND	ND	ND	ND	0.2	
Soluble Chromium VI(Cr ⁶⁺)	mg/kg	ND	ND	ND	ND	ND	ND	0.005	
Soluble Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND	2.5	
Soluble Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND	50	
Soluble Lead(Pb)	mg/kg	ND	ND	ND	ND	ND	ND	0.25	
Soluble Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND	50	
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND	1.0	
Soluble Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND	10	
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND	5	
Soluble Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND	50	
Soluble Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND	0.15	
Soluble Organic Tin	mg/kg	ND	ND	ND	ND	ND	ND	0.1	
Soluble Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND	50	
Conclusion	/	Pass	Pass	Pass	Pass	Pass	Pass	/	/

Note:

- N.D.= Not Detected
- MDL = Method Detection Limit
- * = This test portion material is Category III
- mg/kg = ppm
- The result of Soluble Organic Tin is determined based on the result of Soluble Tin.
- The customer selects the testing site, and the chemical testing conclusion only applies to the selected part.
- Decision rule: According to DTI-CX-39-2022 《Decision rule for conformity of the test results》

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Remark I:

The standard contains requirements for the migration of certain elements from the following categories of toy:

- Category I :Dry, brittle, powder like or pliable materials;
- Category II :Liquid or sticky materials;
- Category III : Scraped-off materials or textile or wood materials or paper products;

Remark II:

Migration limits from toy materials:

Element	Category I mg/kg	Category II mg/kg	Category III mg/kg
Soluble Aluminium (Al)	2250	560	28130
Soluble Antimony (Sb)	45	11.3	560
Soluble Arsenic (As)	3.8	0.9	47
Soluble Barium (Ba)	1500	375	18750
Soluble Boron (B)	1200	300	15000
Soluble Cadmium (Cd)	1.3	0.3	17
Soluble Chromium III(Cr ³⁺)	37.5	9.4	460
Soluble Chromium VI(Cr ⁶⁺)	0.02	0.005	0.053
Soluble Cobalt (Co)	10.5	2.6	130
Soluble Copper (Cu)	622.5	156	7700
Soluble Lead(Pb)	2.0	0.5	23
Soluble Manganese (Mn)	1200	300	15000
Soluble Mercury (Hg)	7.5	1.9	94
Soluble Nickel (Ni)	75	18.8	930
Soluble Selenium (Se)	37.5	9.4	460
Soluble Strontium (Sr)	4500	1125	56000
Soluble Tin (Sn)	15000	3750.	180000
Soluble Organic Tin	0.9	0.2	12
Soluble Zinc (Zn)	3750	938	46000

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TEST REPORT

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Appendix

Photograph of Sample



*** End of Report ***

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