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**Applicant** : HENGDAMAO TOYS FACTORY

Address : CHENGHAI DISTRICT, SHANTOU CITY

Sample Name : Plastic toy series

Item No. : See list

Labeled Age Grading : 3+
Requested Age Grading : 3+

Age Group

Applied in Testing

Received Date : Jun. 09, 2022

**Test Period** : Jun. 09, 2022~ Jun. 16, 2022

3+

Test Requested : 1. As specified by client, in accordance with the requirements of EU Toy

Safety Directive 2009/48/EC, to perform the related testing.

1.1. EN 71-1: 2014+A1:2018 – Mechanical and Physical Properties

1.2. EN 71-2: 2020 - Flammability

1.3.EN 71-3:2019+A1:2021- Migration of Certain Elements

2. As requested by client, to determine the 2009/48/EC-Toy Safety

Directives Label Assessment.

Test Results : Please refer to next page (s).





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#### **Executive Summary:**

STANDARD	CONCLUSION
1.1. EN 71-1: 2014+A1:2018 – Mechanical and Physical Properties	PASS
1.2 .EN 71-2: 2020 – Flammability	PASS
1.3.EN 71-3:2019+A1:2021- Migration of Certain Elements	PASS
2. 2009/48/EC-Toy Safety Directives Label Assessment	SEE DATA



Signed for and on behalf of EMTEK(Guangzhou) Co., L

Prepared by:

Lin Senmin, Summer Assistant engineer Reviewed by:

Sun Wei, Ethan

Technical supervisor

Approved by:

Yu Chunhua, Jay Yu Authorized signatory

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#### Item No.:

YH-002	YH-003	YH-004	YH-005
YH-007	YH-008	YH-009	YH-010
YH-012	YH-013	YH-014	YH-015
YH-017	YH-018	YH-01A	YH-01B
YH-01D	YH-01E	YH-01F	YH-01G
YH-011B	YH-011C	YH-011D	YH-011E
YH-011G	YH-02A	YH-02B	YH-02C
YH-022B	YH-022C	YH-03A	YH-03B
YH-03D	YH-03E	YH-03F	YH-03G
YH-033B	YH-033C	YH-033D	YH-033E
YH-033G	YH-05A	YH-05B	YH-05C
YH-05E	YH-05F	YH-05G	YH-055A
YH-055C	YH-055D	YH-055E	YH-055F
YH-06A	YH-06B	YH-06C	YH-06D
YH-06F	YH-06G	YH-066A	YH-066B
YH-066D	YH-066E	YH-066F	YH-066G
YH-07B	YH-07C	YH-07D	YH-07E
YH-07G	YH-07H	YH-07I	YH-07J
YH-07L	YH-07M	YH-07N	YH-07O
YH-07Q	YH-07R	YH-07S	YH-07T
YH-07V	YH-07W	YH-07X	YH-07Y
YH-08A	YH-08B	YH-08C	YH-08D
YH-08F	YH-08G	YH-08H	YH-08I
YH-08K	YH-08L	YH-08M	YH-08N
YH-08P	YH-08Q	YH-08R	YH-08S
YH-08U	YH-08V	YH-08W	YH-08X
YH-08Z	YH-09A	YH-09B	YH-09C
YH-09E	YH-09F	YH-09G	YH-09H
YH-09J	YH-09K	YH-09L	YH-09M
YH-09O	YH-09P	YH-09Q	YH-09R
YH-09T	YH-09U	YH-09V	YH-09W
YH-09Y	YH-09Z		
	YH-007 YH-012 YH-017 YH-01D YH-011B YH-011G YH-022B YH-03D YH-033B YH-033G YH-05E YH-055C YH-06A YH-06F YH-066D YH-07B YH-07G YH-07C YH-07V YH-07V YH-07V YH-08A YH-08F YH-08F YH-08V YH-08U YH-09C YH-09O YH-09T	YH-007         YH-008           YH-012         YH-013           YH-017         YH-018           YH-01D         YH-01E           YH-011B         YH-011C           YH-011G         YH-02A           YH-022B         YH-022C           YH-03D         YH-03E           YH-033B         YH-033C           YH-05A         YH-05A           YH-05E         YH-05F           YH-05E         YH-05D           YH-06A         YH-06B           YH-06F         YH-06G           YH-06B         YH-06E           YH-07D         YH-07H           YH-07D         YH-07H           YH-07D         YH-07N           YH-07D         YH-07N           YH-07D         YH-07N           YH-07D         YH-07N           YH-07D         YH-07N           YH-08A         YH-08B           YH-08B         YH-08B           YH-08F         YH-08C           YH-08V         YH-08V           YH-08V         YH-09C           YH-09E         YH-09F           YH-09D         YH-09P           YH-09T         YH-09P	YH-007         YH-008         YH-009           YH-012         YH-013         YH-014           YH-017         YH-018         YH-01A           YH-01D         YH-01E         YH-01F           YH-011B         YH-011C         YH-011D           YH-011G         YH-02A         YH-02B           YH-022B         YH-022C         YH-03A           YH-03D         YH-03E         YH-03F           YH-033B         YH-033C         YH-033D           YH-033G         YH-05A         YH-05B           YH-05E         YH-05F         YH-05G           YH-055C         YH-055D         YH-055E           YH-06A         YH-06B         YH-06C           YH-06F         YH-06G         YH-066A           YH-07B         YH-07C         YH-07D           YH-07G         YH-07H         YH-07I           YH-07Q         YH-07M         YH-07N           YH-07Q         YH-07R         YH-07S           YH-08A         YH-08B         YH-08C           YH-08F         YH-08G         YH-08H           YH-08P         YH-08Q         YH-08R           YH-08D         YH-08Q         YH-08R           YH-08D<





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#### **Test Results:**

### 1.1. EN 71-1:2014+A1:2018 Safety of Toys - Part 1: Mechanical and Physical Properties

As Specified in EN 71-1:2014+A1:2018 Safety of Toys - Part 1: Mechanical and Physical Properties

<u>Clause</u>	<u>Description</u>	Result
4	General requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	N/A
4.3	Flexible plastic 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	
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	
4.15.1	Toys propelled by a child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A





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<u>Clause</u>	<u>Description</u>	Resul
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toy scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	
4.17.1	General	N/A
4.17.2	All projectiles	N/A
4.17.3	Projectile toys with stored energy	N/A
4.17.4	Certain projectile toys without stored energy	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	Pass
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	
4.23.1	General	N/A
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	
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	
5.1	General requirements	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
53	Plactic chaoting	NI/A





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<u>Clause</u>	<u>Description</u>	Resi
5.4	Cords, chains and electrical cables in toys	
5.4.1	General	N/A
5.4.2	Cords and chains in toys intended for children under 18 months	N/A
5.4.3	Cords and chains in toys intended for children of 18 months or over but under 36 months	N/A
5.4.4	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
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
5.5	Liquid filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on 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	Pas
7	Warnings, markings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pas
7.3	Latex balloons	N/A
7.4	Aquatic toys	N/A
7.5	Functional toys	N/A





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<u>Clause</u>	<u>Description</u>	Result
7.6	Hazardous sharp functional edges and points	N/A
7.7	Projectiles	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	
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 attached to or strung across a cradle, cot, or perambulator	N/A
7.12	Liquid-filled teethers	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 300mm in length	N/A
7.22	Toys with cords or chains intended for children of ≥ 18 months and < 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

#### N/A = Not Applicable





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#### **Test Result:**

### 1.2. EN 71-2:2020 Safety of Toys - Part 2: Flammability

As Specified in EN 71-2:2020 Safety of Toys - Part 2: Flammability

<u>Clause</u>	<u>Description</u>	Result
4	Requirements	
4.1	General requirements	Pass
4.2	Toys to be worn on the head	N/A
4.2.1	General	N/A
4.2.2	Beards, moustaches, wigs, etc., made from pile or flowing elements which	N/A
	protrude 50 mm or more from the surface of the toy	
4.2.3	Beards, moustaches, wigs, etc., made from pile or flowing elements 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	Toys to be worn on the head, hoods, headdresses including upward protruding items and masks which partially or fully cover the head	N/A
4.3	Toy disguise costumes and 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	N/A

N/A = Not Applicable





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#### **Test Results:**

### 1.3. EN 71-3:2019+A1:2021 Safety of Toys - Part 3: Migration of Certain Elements

### Category III: Scraped-off toy material

Test Method: With reference to EN 71-3:2019+A1:2021. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation, Chromium (VI) was analyzed by LC-ICP-MS and organic tin was analyzed by GC-MS.

Test Item(s)			Result(s)				MDI	Permissible	
			1	2	3	4	5	MDL	Limit
Soluble Aluminum	(AI)	(mg/kg)	ND	ND	ND	ND	ND	10	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	ND	ND	5	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	ND	ND	10	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	ND	ND	10	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	ND	ND	1	17
Soluble Chromium (III)	(Cr(III))	(mg/kg)	ND	ND	ND	ND	ND	10	460
Soluble Chromium (VI)	(Cr(VI))	(mg/kg)	ND	ND	ND	ND	ND	0.02	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	ND	ND	10	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	ND	ND	1.0	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	ND	ND	10	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	ND	ND	10	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	ND	ND	3.3	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND	ND	ND	3	12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	ND	ND	ND	10	46000





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#### Specimen Description:

- 1. White hard plastic(white plastic)
- 2. Pink hard plastic (pink plastic)
- 3. Yellow hard plastic (yellow plastic)
- 4. Orange hard plastic (orange plastic)
- 5. Blue hard plastic (blue plastic)

#### Note:

- (1) mg/kg = milligram per kilogram = ppm
- (2) ND = Not Detected (Less than MDL)
- (3) MDL = Method Detection Limit
- (4) Soluble organic tin was reported as soluble tin; Further confirmation test will be required when soluble tin is detected.
- (5) Migration limit from toy materials given in EN 71-3:2019+A1:2021(4.2) as below:





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Elements	Category I	Category II	Category III Scraped-off materials	
(mg/kg)	Dry, brittle, powder-like or pliable materials	Liquid or sticky materials		
Aluminum	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	1200	300	15000	
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	





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#### **Test Results:**

### 2. 2009/48/EC-Toy Safety Directives Label Assessment

#### Summary table:

Clause	Sample Name	Observation Result	Location
Cleaning instruction	Plastic toy series	Not applicable	
CE-marking	Plastic toy series	Present	Packaging
Importer's name & address	Plastic toy series	Absent	
Manufacturer's name & address	Plastic toy series	Absent	
Product identification code	Plastic toy series	Present	Packaging

#### Note:

It is drawn to your attention that the name and address of manufacturer and importer in EEC country, toy's type, batch, serial, model number or other element allowing the identification and the advice statement for keeping relevant information together with CE-marking should appear as specified Directive 2009/48/EC.

Note: 2009/48/EC-Toy Safety Directives Label Assessment were not within the scope of CNAS accreditations.





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### **Sample Photos:**







Remark: The above sample photos (provided by client)

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





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For other statements, please refer to the footer of the report.





#### 签发测试报告条款

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- 5.本公司接受样品进行测试的前提是,该测试报告不能作为针对本公司法律行动的依据。
  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.如因使用本公司中心任何报告内的资料,或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害,本公司概不负责。 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.若需要在法院审理程序或者仲裁过程中使用测试报告,客户必须在提交测试样品前将该意图告知本公司。
  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.
- 8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上 述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。

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 ten 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.

