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Applicant : eKids, LLC. / KIDDESIGNS INC.

Address : 1299, Main Street, Rahway, NJ 07065, U.S.A. : DISNEY FROZEN II LIGHT AND MUSIC SET Sample Name

Style/Item No. FR-300, FR-300.11Mv9M (FR-V111, FR-V124, FR-V165)

Factory Shenzhen Inecan Electronic Co., Ltd.;

Lizhen Electronics (Shenzhen) Co., Ltd.

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

Age Group Applied in Testing Over 3 years

EU Destination **Country of Origin** CHINA

Sample Received Date : July 17, 2019 **Testing Completed Date** : July 31, 2019

Test Requested : As requested by the client, according to the following standards to perform

the related testings.

1) EN71-1: 2014+A1: 2018 - Physical and Mechanical Properties

EN71-2: 2011+A1: 2014 - Flammability Test 2)

3) 2009/48/EC - Toy Safety Directives Label Assessment

EN71-3: 2019 - Migration of certain elements

Test Results Please refer to next page (s).

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Industrial Development Zone, Dongguan, Guangdong, China Http://www.emtek.com.cn E-mail: project@emtek.com.cn



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Executive Summary:

	STANDARD	CONCLUSION
1)	EN71-1: 2014+A1: 2018 – Physical and Mechanical Properties	PASS
2)	EN71-2: 2011+A1: 2014 – Flammability Test	PASS
3)	2009/48/EC - Toy Safety Directives Label Assessment	SEE RESULT
4)	EN71-3: 2019 – Migration of certain elements	PASS

Signed for and on behalf of EMTEK (Dongguan) Co., Ltd.

Prepared by:

Report Engineer

Reviewed by:

Carrie Zhang

Supervisor

Approved by:

Lisa Li Manager





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Test Results:

1) Mechanical and Physical Properties:

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 1: 2014+A1: 2018

Clause	Description	<u>1</u>	Result
4	General re	equirements	
4.1	Material cle	eanliness (by visual assessment)	<u>Pass</u>
4.2	Assembly.		N/A
4.3	Flexible pla	astic sheeting	<u>N/A</u>
4.4	Toy Bags .		<u>N/A</u>
4.5	Glass		<u>N/A</u>
4.6	Expanding	Materials	<u>N/A</u>
4.7	Edges		<u>Pass</u>
4.8	Points and	Metallic Wires	<u>Pass</u>
4.9	Protruding	parts	N/A
4.10	Parts movi	ng against each other:	
	4.10.1	Folding and sliding mechanisms	N/A
	4.10.2	Driving mechanisms	<u>N/A</u>
	4.10.3	Hinges	<u>N/A</u>
	4.10.4	Springs	N/A
4.11	Mouth-actu	uated toys and other toys intended to be put in the mouth	<u>N/A</u>
4.12	Balloons		N/A
4.13	Cords of to	by kites and other flying toys	<u>N/A</u>
4.14	Enclosures	3:	
	4.14.1	Toys which a child can enter	<u>N/A</u>
	4.14.2	Masks and helmets	<u>N/A</u>
4.15	Toys intend	ded to bear the mass of a child:	
	4.15.1	Toys propelled by a child or by other means	<u>N/A</u>
	4.15.2	Toy bicycles	<u>N/A</u>
	4.15.3	Rocking horses and similar toys	<u>N/A</u>
	4.15.4	Toys not propelled by a child	<u>N/A</u>
	4.15.5	Toy scooters	N/A
4.16	Heavy imm	nobile toys	<u>N/A</u>
4.17	Projectile to	oys	N/A
4.18	Aquatic toy	s and inflatable toys	<u>N/A</u>
4.19	Percussion	n caps specifically designed for use in toys and toys using percussion	
	caps		<u>N/A</u>
4.20	Acoustics .		<u>N/A</u>
4.21	Toys conta	aining a non-electrical heat source	N/A





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Clause	<u>Description</u>	Result	
4.22	Small balls	<u>N/A</u>	
4.23	Magnets	<u>N/A</u>	
4.24	Yo-yo balls	<u>N/A</u>	
4.25	Toys attached to food	<u>N/A</u>	
4.26	Toy Disguise Costumes	<u>N/A</u>	
4.27	Flying toys	<u>N/A</u>	
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	<u>N/A</u>	
5.3	Plastic sheeting	<u>N/A</u>	
5.4	Cords, chains and electrical cables in toys	N/A	
5.5	Liquid filled toys	<u>N/A</u>	
5.6	Speed limitation of electrically-driven ride-on toys	<u>N/A</u>	
5.7	Glass and porcelain	<u>N/A</u>	
5.8	Shape and size of certain toys	<u>N/A</u>	
5.9	Toys comprising monofilament fibres	N/A	
5.10	Small balls	<u>N/A</u>	
5.11	Play figures	N/A	
5.12	Hemispheric shaped toys	<u>N/A</u>	
5.13	Suction cups	<u>N/A</u>	
5.14	Straps intended to be worn fully or partially around the neck	<u>N/A</u>	
5.15	Sledges with cords for pulling	N/A	
6	Packaging	N/A	
7	Warnings, markings and instructions for use		
7.1	General	<u>Pass</u>	
7.2	Toys not intended for children under 36 months	<u>N/A</u>	
7.3	Latex Balloons	<u>N/A</u>	
7.4	Aquatic toys	<u>N/A</u>	
7.5	Functional Toys	N/A	
7.6	Hazardous sharp functional edges and points	<u>N/A</u>	
7.7	Projectile toys	N/A	
7.8	Imitation protective masks and helmets	<u>N/A</u>	
7.9	Toy kites	N/A	
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	<u>N/A</u>	
7.11	Toys otherwise intended to be 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	<u>N/A</u>	





No.: ED190717034C001 Date: July 31, 2019 Page 5 of 12 Description Result Clause 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 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 7.26 Improvised projectiles..... N/A N/A = Not Applicable





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Test Results:

2) Flammability Test:

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 2:2011+A1: 2014

<u>Clause</u>	<u>Description</u>	Result
4	Requirements	
4.1	General requirements	<u>Pass</u>
4.2	Toys to be worn on the head	<u>N/A</u>
4.3	Toy disguise costumes and toys intended to be worn by a child in play	<u>N/A</u>
4.4	Toys intended to be entered by a child	<u>N/A</u>
4.5	Soft-filled toys	<u>N/A</u>

N/A = Not Applicable

3) 2009/48/EC - Toy Safety Directives Label Assessment

Summary table:

	Observation Result	Location
Cleaning instruction	Not applicable	
CE- marking	Present	Product / Packaging
Importer's name & address	Present	Packaging
Manufacturer's name & address	Present	Packaging
Product identification code	Present	Product / 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.





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Test Results:

4) Test Method: Samples were extracted in diluted hydrochloric acid in accordance with EN71-3: 2019, the analysis was performed by ICP-MS.

Toot Itom	Result(mg/kg)				Reporting Limit
Test Item	1	2	3	4	(mg/kg)
Aluminum (Al)	172	ND	ND	ND	2
Antimony (Sb)	ND	ND	ND	ND	2
Arsenic (As)	ND	ND	ND	ND	2
Barium (Ba)	ND	ND	ND	ND	2
Boron (B)	ND	ND	ND	ND	2
Cadmium (Cd)	ND	ND	ND	ND	2
Chromium (Cr ³⁺) #△	See remark 1	ND	ND	ND	0.2
Chromium (Cr ⁶⁺) #△	See remark 1	ND	ND	ND	0.2
Cobalt (Co)	ND	ND	ND	ND	2
Copper (Cu)	ND	ND	ND	ND	2
Lead (Pb)	ND	ND	ND	ND	2
Manganese (Mn)	ND	ND	ND	ND	2
Mercury (Hg)	ND	ND	ND	ND	2
Nickel (Ni)	ND	ND	ND	ND	2
Selenium (Se)	ND	ND	ND	ND	2
Strontium (Sr)	ND	ND	ND	ND	2
Tin (Sn)	ND	ND	ND	ND	2
Organic Tin*	ND	ND	ND	ND	2
Zinc (Zn)	29	ND	ND	ND	2





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Test Results:

Test Item		Reporting Limit		
rest item	5	6	7	(mg/kg)
Aluminum (Al)	ND	ND	ND	2
Antimony (Sb)	ND	ND	ND	2
Arsenic (As)	ND	ND	ND	2
Barium (Ba)	ND	ND	ND	2
Boron (B)	ND	ND	ND	2
Cadmium (Cd)	ND	ND	ND	2
Chromium (Cr ³⁺) #△	ND	ND	ND	0.2
Chromium (Cr ⁶⁺) #△	ND	ND	ND	0.2
Cobalt (Co)	ND	ND	ND	2
Copper (Cu)	ND	ND	ND	2
Lead (Pb)	ND	ND	ND	2
Manganese (Mn)	ND	ND	ND	2
Mercury (Hg)	ND	ND	ND	2
Nickel (Ni)	ND	ND	ND	2
Selenium (Se)	ND	ND	ND	2
Strontium (Sr)	ND	ND	ND	2
Tin (Sn)	ND	ND	ND	2
Organic Tin*	ND	ND	ND	2
Zinc (Zn)	ND	ND	ND	2

- 2. #Soluble Chromium (III) and Soluble Chromium (VI) were reported as Soluble Total Chromium, further confirmation test will be required when Total Chromium is detected.
- 3. *Soluble Organic Tin was reported as Soluble Tin, further confirmation test will be required when Soluble Tin is detected.
- 4. All the materials tested belong to scraped-off toy material by identifying.
- 5. \triangle The test about this project was completed in EMTEK (Shenzhen) Co., Ltd. by subcontracting.





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Remark 1: Chromium III and Chromium VI content

Test Method: Samples were extracted in diluted hydrochloric acid in accordance with EN 71-3:2019, the analysis was performed by IC-ICP-MS.

#12.01	Test Result (mg/kg)	Reporting Limit
Test Item	1	Reporting Limit (mg/kg)
Chromium III	2.5	0.2
Chromium VI	ND	0.2

Note: mg/kg = part per million = ppm ND = Not Detected (less than reporting limit)





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Requirement of migration of certain elements content according to EN71-3: 2019:

Parameter	Dry, brittle, powder-like or pliable toy material (mg/kg)	Liquid or sticky toy material (mg/kg)	Scraped-off toy material (mg/kg)
Aluminum	5625	1406	70000
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 Cr(VI)	0.02	0.005	0.2 / 0.053 ^a
Cobalt	10.5	2.6	130
Copper	622.5	156	7700
Lead	2	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

Remark: a = The migration limit for Chromium (VI) for Category III toy material (scraped-off toy material) has beenamended by Commission Directive (EU) 2018/725 [7]. The new limit value (0,053 mg/kg) applies from 2019-11-18. Before this date the limit value 0,2 mg/kg applies.





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Test Item List:

Item No.	Description		
1	Coatings (white, dark blue) on plastic (pattern on receiver)		
2	Light blue hard plastic (receiver / support)		
3	Black hard plastic (plug)		
4	White soft plastic (plug / trail buckle / node)		
5	White soft plastic (wire)		
6	White synthetic leather back with white fabric (earcap)		
7	White fabric (earcap)		
8*	White coating on plastic (printing on support)		

Remark: * = As specified in the EN 71-3:2019 Section Clause 7, the test portion sampled from one single sample(set) with the mass less than 10mg shall not be tested for soluble heavy metals contents.





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Photo Appendix





* * * * * The End * * * * *



答发测试报告条款

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