

# TEST REPORT

No.: ED190717029C001

Date: July 30, 2019

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**Applicant** : eKids, LLC. / KIDDESIGNS INC.  
**Address** : 1299, Main Street, Rahway, NJ 07065, U.S.A.  
**Sample Name** : DISNEY FROZEN II LIGHT AND MUSIC SET  
**Style/Item No.** : FR-300, FR-300.11Mv9M (FR-V111, FR-V124, FR-V165)  
**Factory** : DJ Toys  
**Labeled Age Grading** : 3+  
**Requested Age Grading** : 3+  
**Age Group Applied in Testing** : Over 3 years  
**Destination** : EU  
**Country of Origin** : CHINA  
**Sample Received Date** : July 17, 2019  
**Testing Completed Date** : July 30, 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
- 2) EN71-2: 2011+A1: 2014 – Flammability Test
- 3) 2009/48/EC – Toy Safety Directives Label Assessment
- 4) EN71-3: 2019 – Migration of certain elements

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

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## Executive Summary:

	<b>STANDARD</b>	<b>CONCLUSION</b>
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: Kay  
Kay Li  
Report Engineer

Reviewed by: Carrie  
Carrie Zhang  
Supervisor

Approved by: Li sec  
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

<u>Clause</u>	<u>Description</u>	<u>Result</u>
<b>4</b>	<b>General requirements</b>	
4.1	Material cleanliness (by visual assessment).....	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:	
	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
	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	Projectile toys.....	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

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<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.22	Small balls .....	N/A
4.23	Magnets.....	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
<b>5</b>	<b>Toys intended for children under 36 months</b>	
5.1	General requirements.....	N/A
5.2	Soft-filled toys and soft-filled parts of a toy .....	N/A
5.3	Plastic sheeting .....	N/A
5.4	Cords, chains and electrical cables in toys .....	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
<b>6</b>	<b>Packaging .....</b>	<b>N/A</b>
<b>7</b>	<b>Warnings, markings and instructions for use</b>	
7.1	General .....	Pass
7.2	Toys not intended for children under 36 months .....	N/A
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
7.11	Toys otherwise 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

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<u>Clause</u>	<u>Description</u>	<u>Result</u>
7.14	Acoustics .....	<u>N/A</u>
7.15	Toy bicycles .....	<u>N/A</u>
7.16	Toys intended to bear the mass of a child .....	<u>N/A</u>
7.17	Toys comprising monofilament fibres .....	<u>N/A</u>
7.18	Toy scooters.....	<u>N/A</u>
7.19	Rocking horses and similar toys.....	<u>N/A</u>
7.20	Magnetic/electrical experimental sets.....	<u>N/A</u>
7.21	Toys with electrical cables exceeding 300mm in length.....	<u>N/A</u>
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months.....	<u>N/A</u>
7.23	Toys intended to be attached to a cradle, cot or perambulator.....	<u>N/A</u>
7.24	Sledges with cords for pulling.....	<u>N/A</u>
7.25	Flying toys.....	<u>N/A</u>
7.26	Improvised projectiles.....	<u>N/A</u>

N/A = Not Applicable

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## Test Results:

### 2) Flammability of Toys:

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

<u>Clause</u>	<u>Description</u>	<u>Result</u>
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.

Test Item	Result(mg/kg)					Reporting Limit (mg/kg)
	1	2	3	4	5	
Aluminum (Al)	2616	ND	ND	ND	24	2
Antimony (Sb)	ND	ND	ND	ND	ND	2
Arsenic (As)	ND	ND	ND	ND	ND	2
Barium (Ba)	ND	ND	ND	ND	ND	2
Boron (B)	ND	ND	ND	ND	ND	2
Cadmium (Cd)	ND	ND	ND	ND	ND	2
Chromium (Cr <sup>3+</sup> ) #△	See remark 1	ND	ND	ND	ND	0.2
Chromium (Cr <sup>6+</sup> ) #△	See remark 1	ND	ND	ND	ND	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	2
Copper (Cu)	ND	ND	ND	ND	ND	2
Lead (Pb)	ND	ND	ND	ND	ND	2
Manganese (Mn)	ND	ND	ND	ND	ND	2
Mercury (Hg)	ND	ND	ND	ND	ND	2
Nickel (Ni)	ND	ND	ND	ND	ND	2
Selenium (Se)	ND	ND	ND	ND	ND	2
Strontium (Sr)	16	ND	ND	ND	9	2
Tin (Sn)	ND	ND	ND	ND	ND	2
Organic Tin*	ND	ND	ND	ND	ND	2
Zinc (Zn)	43	20	ND	15	13	2

Note: 1. mg/kg = part per million = ppm      ND = Not Detected (less than Reporting limit)

- #Soluble Chromium (III) and Soluble Chromium (VI) were reported as Soluble Total Chromium, further confirmation test will be required when Total Chromium is detected.
- \*Soluble Organic Tin was reported as Soluble Tin, further confirmation test will be required when Soluble Tin is detected.
- All the materials tested belong to scraped-off toy material by identifying.
- △ 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.

Test Item	Test Result (mg/kg)	Reporting Limit (mg/kg)
	1	
Chromium III	0.3	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 <sup>a</sup>
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 been amended 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	Multicolor coating on plastic (shell)
2	Blue hard plastic (shell / button)
3	White hard plastic except coating (shell)
4	White soft plastic (handle)
5	White paper with blue printing (bottom)

Photo Appendix



\* \* \* \* \* The End \* \* \* \* \*

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3. 除非相关政府部门、法律或法院要求，否则未经公司预先书面同意，本公司毋需，也并无义务到法院对有关报告作证。

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4. 除非本公司进行抽样，并已在报告中说明，否则报告中适用于送测的样品（样品信息为客户提供），不适用于批量。

The Report refers only to the tested sample (Sample information is provided by customer) and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
5. 如果本公司确定报告被不当地使用，本公司保留撤回报告的权利，并有权要求其它适当的额外赔偿。

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.
6. 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。

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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.
9. 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。

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