



Report No.: RTS221017T1895TY

Date : 2022-10-21

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# TEST REPORT

**OVERALL RATING**

×	PASS
	FAIL

**Test information**

<b>Applicant</b>	:	FAIRSKY TOYS & GIFTS COMPANY LIMITED
<b>Address</b>	:	Room 1803,18th Floor, New Commerce Centre,19 On Sum Street,Shatin N.T.,Hong Kong
<b>Sample Description</b>	:	COLOUR PLASTIC BEAN WITH GEL BALL 6CM
<b>PO #</b>	:	Not provided.
<b>Style #</b>	:	SV15424/SV15425
<b>Labeled Age Grade</b>	:	--
<b>Client Request Age Grade</b>	:	3 years +
<b>Age grade for testing</b>	:	3 years +
<b>Country of origin</b>	:	China.
<b>Export to</b>	:	Not provided.
<b>Buyer</b>	:	Not provided.
<b>Receiving Date</b>	:	October 17, 2022.
<b>Test period</b>	:	October 17, 2022.~October 21, 2022.
<b>Test Requested</b>	:	Tests requested in accordance to client requirement.

Signed for and on behalf of

RTS TEST CO., LTD. (Zhejiang)

CHANGBIAO YU

Approved signatory



BINBIN ZOU



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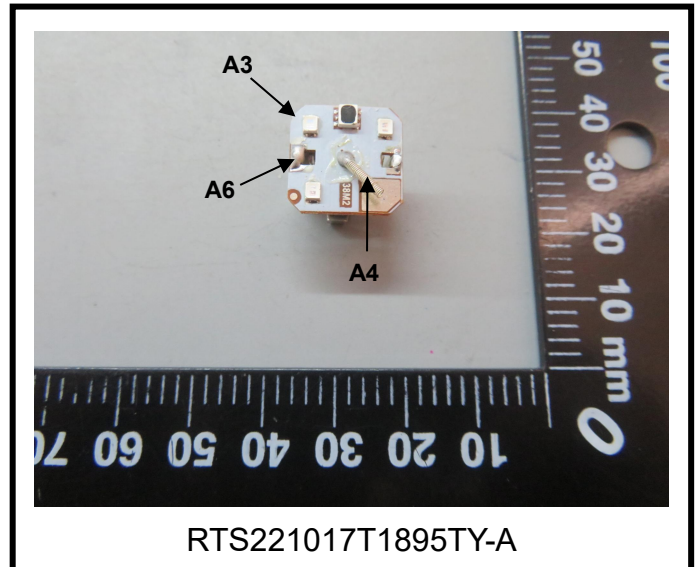
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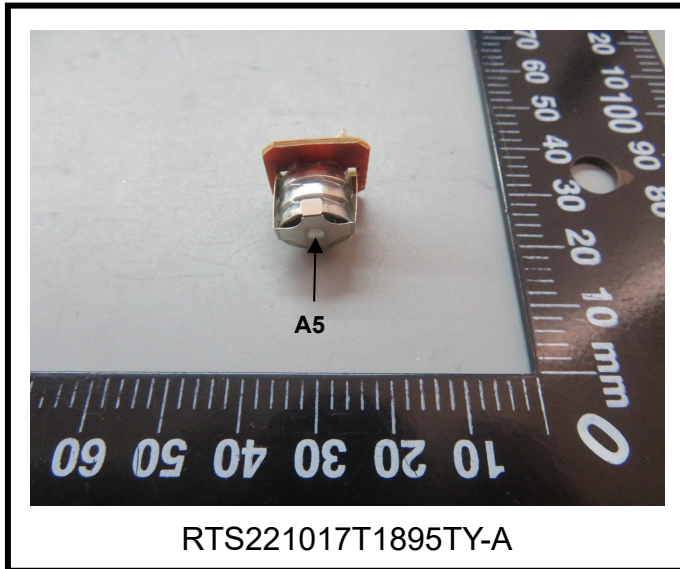
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<u>TEST ITEMS</u>	<u>CONCLUSIONS</u>
EN71-1:2014+A1:2018 - Mechanical and Physical Properties(Excepted clause 7 Warnings, markings and instructions for use as per client's request)	PASS
EN71-2:2020 - Flammability	PASS
EN71-3:2019+A1:2021 - Migration of Certain Elements	PASS
Entry 23 of Commission Regulation (EU) No 835/2012 Amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Cadmium(Cd) Content	PASS
Entry 51&52 of Commission Regulation (EU) 2018/2005 Amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalates content	PASS
The results of Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates (DBP/BBP/ DEHP/ DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 and (EU) 2020/364 Amending Annex II to Directive 2011/65/EU.	PASS

**Sample image:**



### Sample image:



Test Number	Item/ component description(s)
A	Toy ball overall (blue style)
A1	Transparent plastic ball skin
A2	Transparent round plastic shell
A3	Circuit board
A4	Silvery plating metal (spring)
A5	Silvery plating metal (clamping piece)
A6	Solder
A7	Toy ball overall (pink style)



**Finished product image:**



**Test result:****A. European Standard-Safety of Toys: EN71-1:2014+A1:2018 Mechanical and Physical Properties:**

Section(s)	Test	Test Results A7
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	PASS
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 & 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	N/A
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks & Helmets	N/A
4.15	Toys intended to bear the mass of a child	N/A
4.15.1	Toys propelled by a child or other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses & 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
4.17.1	General	N/A
4.17.2	All projectiles	N/A
4.17.3	Projectiles 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

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Section(s)	Test	Test Results A7
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
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
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
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 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
6	Packaging	N/A
7	Warnings, markings and instructions for use	N/C

**Remark:** N/A= Not Applicable, N/C= Not Conducted as per client's request.

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**B. European Standard-Safety of Toys: EN71-2:2020 - Flammability :**

Test Item(s)	Observation	Test Results A
4.1 General	No visual signs of Cellulose Nitrate and highly flammable solids	PASS
4.2 Toys to be worn on 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

**Remark:** N/A= Not Applicable**Zhejiang RTS Test Co., LTD.**

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### C. European Standard-Safety of Toys: EN71-3:2019+A1:2021 Migration of Certain Elements: (Unit: mg/kg)

Elements	MDL	Test Results A1	Limit Value Category III
Soluble Aluminum(Al)	50	N.D.	28130
Soluble Antimony (Sb)	10	N.D.	560
Soluble Arsenic(As)	10	N.D.	47
Soluble Barium (Ba)	50	N.D.	18750
Soluble Boron (B)	50	N.D.	15000
Soluble Cadmium(Cd)	5	N.D.	17
Soluble trivalent chromium(Cr+3)	5	N.D.	460
Soluble Chromium VI (Cr+6)*	0.01	N.D.	0.053
Soluble Cobalt(Co)	10	N.D.	130
Soluble Copper(Cu)	50	N.D.	7700
Soluble Lead(Pb)	5	N.D.	23
Soluble Manganese(Mn)	50	N.D.	15000
Soluble Mercury(Hg)	10	N.D.	94
Soluble Nickel(Ni)	10	N.D.	930
Soluble Selenium(Se)	10	N.D.	460
Soluble Strontium(Sr)	50	N.D.	56000
Soluble Tin(Sn)	4.9	N.D.	180000
Soluble Organic tin**	4.9	N.D.	12
Soluble Zinc(Zn)	50	N.D.	46000

#### Explain:

1)"--"= Not clearly defined

2)N.D. = not detected, less than MDL(Method Detection Limit).

3)▲ = sample was tested in mixture.

4) If the chromium content of the tested sample does not exceed the limits of chromium III and/or chromium VI, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI are confirmed by ion speciation techniques

\*: The chromium VI content is determined by LC-ICP-MS or High resolution UV-VIS spectroscopy. (If confirmation is done only)

5) If the Organic Tin content of the tested sample projected by the tin content does not exceed the limit of Organotin, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC and marked with "--". Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis.

\*\* : The Organic Tin content is determined by GC-MS. (If confirmation is done only).

#### Test Method: In accordance with EN71-3:2019+A1:2021:

1. To determine the soluble heavy metals content, Analysis was preformed by LC-ICP-MS.
2. To determine the Chromium VI (Cr+6) content, Analysis was preformed by LC-ICP-MS.
3. To determine the organic tin content, Analysis was preformed by GC-MS.

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**D. Total Cadmium(Cd) content:** (Unit: mg/kg)

Entry 23 of Commission Regulation (EU) No 835/2012 Amending Annex XVII of REACH Regulation (EC)No 1907/2006 .

**Test method:** RTS-ZY-008 As per Metal- CPSC-CH-E1001-08.3; Nonmetal- CPSC-CH-E1002-08.3 or Surface coating- CPSC-CH-E1003-09.1, Was analyzed by flame atomic absorption spectrometry(AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Number	Item/ component description(s)
A1	Transparent plastic ball skin

Test item	Test Number	MDL	Test Result	Maximum permissible limit	Conclusion
Cadmium (Cd)	A1	5	N.D.	100	PASS

**Note:**

- 1) MDL=Method Detection Limit.
- 2) N.D. = not detected, less than MDL.
- 3)“▲” = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.

**E. Phthalates Content:** (Unit: mg/kg)

Entry 51&52 of Commission Regulation (EU) 2018/2005 Amending Annex XVII of REACH Regulation (EC) No 1907/2006.

**Test method:** With reference to EN 14372:2004-6.3.2, was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Number	Item/ component description(S)
A1	Transparent plastic ball skin

Test Item(s)	CAS No.	Results A1	MDL	Limit value
Dibutyl Phthalate(DBP)	84-74-2	N.D.	50	-
Benzylbutyl Phthalate(BBP)	85-68-7	N.D.	50	-
Bis-(2-ethylhexyl)Phthalate(DEHP)	117-81-7	N.D.	50	-
Diisobutyl phthalate (DIBP)	84-69-5	N.D.	50	-
Total(DBP+BBP+DEHP+DIBP)		N.D.	-	1000
Di-n-octyl Phthalate(DNOP)	117-84-0	N.D.	50	-
Diisodecyl Phthalate(DIDP)	26761-40-0 & 68515-49-1	N.D.	50	-
Di-iso-nonyl Phthalate(DINP)	28553-12-0 & 68515-48-0	N.D.	50	-
Total(DNOP+DIDP+DINP)		N.D.	-	1000
<b>Conclusion:</b>		PASS	-	-

**Note:**

1) N.D. = not detected, less than MDL.

2) MDL = Method Detection Limit.

3)“▲” = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.



**F1. RoHS Directive (EU) 2015/863 and (EU) 2020/364 Amending Annex II to Directive 2011/65/EU - XRF Test**  
**Result of ED-XRF Spectroscopy Screening Method:** (Unit: mg/kg)

Part No.	Lead(Pb)	Cadmium(Cd)	Mercury(Hg)	Chromium (Cr)	Bromine (Br)
A2	BL	BL	BL	BL	BL
A3	BL	BL	BL	BL	BL
A4	BL	BL	BL	BL	--
A5	BL	BL	BL	BL	--
A6	BL	BL	BL	BL	--

**Remark:** Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Pb, Cd, Hg), UV-Vis (for Cr(VI)), GC-MS for (Br) are recommended to be performed if the result is IN or OL.

**Test method:** With reference to IEC 62321-3-1:2013 Screening by X-ray Fluorescence Spectroscopy (XRF).

- Note:** (1) 1mg/kg = 1ppm = 0.0001%.  
(2) -- = Not Regulated.  
(3) ▲ = sample was tested in mixture.  
(4) **BL** = Below limit, **OL** = Over limit, **IN** = Inconclusive, **EX** = Exemption, **LOD** = Limit of Detection, **N/A**=not Applicable.  
(5) The XRF screening test for RoHS elements-The reading may be different to the actual content in the sample be of non-uniformity composition.  
(6) Exemption = Directive (EU) 2018/736 of 27 February 2018, exempted the use of lead in electrical and electronic components containing lead in a glass or ceramics, other than dielectric ceramics in capacitors.

Element	Polymers	Metals	Composite Material
<b>Cd</b>	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
<b>Pb</b>	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
<b>Hg</b>	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
<b>Cr</b>	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
<b>Br</b>	$BL \leq (300-3\sigma) < X$	N/A	$BL \leq (250-3\sigma) < X$



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**F2. RoHS Directive 2011/65/EU Annex II and Directive (EU) 2015/863 Amending on Phthalates (DBP/BBP/ DEHP/ DIBP)**

**content:** ( Unit: mg/kg)

Test Item(s)	MDL	Result(s)		Limit
		A2	A3	
Dibutyl Phthalate(DBP)(Cas No.: 84-74-2)	50	N.D.	N.D.	1000
Benzylbutyl Phthalate(BBP) (Cas No.:85-68-7)	50	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate(DEHP) (Cas No.:117-81-7)	50	N.D.	N.D.	1000
Di-iso-butyl ortho-phthalate(DIBP) (Cas No.:84-69-5)	50	N.D.	N.D.	1000

**Note:**

1) N.D. = Not Detected or less than MDL.

2) MDL = Method Detection Limit.

3)“▲” = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.

**Test method:**

**Phthalates (DBP/BBP/DEHP/DIBP) content:**

With reference to IEC 62321-8:2017, was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

----- End of Report -----

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