

Test Report

Number: SZU010439
(SZHH0167437802)

Applicant: SANDBOX TRADING LTD
2310 DOMINION CENTER,
43-59 QUEENS ROAD
EAST, WAN CHAI 999077,
HONG KONG SAR

Date: Apr 22, 2022

Sample Description:

Six (6) pieces of submitted sample said to be :

Item Name	:	Shape N' Spin Gear Sorter
Item No.	:	Yookidoo - 40200
Reference No.	:	Yookidoo - 40300
Brand Name	:	Yookidoo
Labelled Age Group	:	1-3 Years
Applicant Specified Age	:	Over 1 years
Grading for Testing	:	
Packaging Provided by Applicant	:	Yes
Appropriate Age Grade	:	Over 1 years
Additional Material and Wet	:	No
Paint Provided	:	
Vendor	:	Zhong shan City Zhengbang Plastic Products Co., Ltd No. 1 Chenghong Road, Shenwan Town, Zhongshan City, Guangdong Province, China 528462
Country of Origin	:	China
Date Sample Received	:	Apr 12, 2022
Testing Period	:	Apr 12, 2022 ~ Apr 21, 2022

SZHH01674378



Page 1 of 11

Test Report

Number: SZU010439
(SZHH0167437802)

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EN 71-1: 2014+A1: 2018 for mechanical and physical properties	Pass
	EN 71 Part 2: 2011+A1: 2014 Flammability test	Pass
	EN 71-2: 2020 Flammability test	Pass
Tested components of submitted samples	EN 71-3:2019+A1:2021 on migration of certain elements	Pass
	Cadmium Content Requirement in Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217	Pass
Submitted samples	Azocolourants Content Requirement in Annex XVII Entry 43 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009 and (EU) 2020/2096	Not Applicable
Tested components of submitted samples	Phthalates Content Requirement in Annex XVII Entry 51 & 52 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009 and (EU) 2018/2005	Pass

Authorized by:
For Intertek Testing Services Shenzhen Ltd.

Approved for and on behalf of
ITS Testing Services (UK) Limited



Rachel L. Guo
General Manager




Philip Bullock
Technical Manager



Test Report

Number: SZU010439
SZHH0167437802

Tests Conducted:

1 Mechanical and Physical Test

Test standard: European Standard on Safety of toys EN 71-1: 2014+A1: 2018.

The submitted samples were undergone the following abuse tests:		
Test	Clause	Parameter
Torque test	8.3	0.34 Nm
Tension test	8.4.2.1	90 N
Drop test	8.5	850 mm x 5times
Impact test	8.7	1 kg
Compression test	8.8	110 N

Clause	Requirement	Result
4	General requirements	
4.1	Material	P
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	P
4.8	Points and metallic wires	P
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	Projectile toys	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	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements	P
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA



Page 3 of 11



Test Report

Number: SZU010439
SZHH0167437802

Tests Conducted:

Clause	Requirement	Result
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
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
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	NA
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	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates and 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 teethingers	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
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

Abbreviation: P = Pass NA = Not Applicable

Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN 71 but are not standard requirements:



Page 4 of 11



Test Report

Number: SZU010439
SZHH0167437802

Tests Conducted:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

	Product	Packaging
Manufacturer's name	Present	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Absent
Importer's address	Absent	Absent
Product identification code	Present	Present
CE-marking	Absent	Present

Below is additional information checking according to the UK Toy (Safety) Regulations requirement.

Marking

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself.

After checking, it was found that

	Product	Packaging
Name of authorised representative in Great Britain	Absent	Present
Address of authorised representative in Great Britain	Absent	Present
Product identification code	Present	Present

With reference to the guidance of using UKCA marking from 1 January 2021 by the Department for Business, Energy and Industrial Strategy.

After checking UKCA marking, it was found that

	Product	Packaging
UKCA marking	Absent	Present

2. Cleaning instruction

A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provided instructions on how the toy has to be cleaned.

After checking, the cleaning instruction was not found on the submitted samples.

2 Flammability Test

Test Standard: European Standard on Safety of Toys EN 71-2: 2011+A1: 2014

Clause	Testing items	Assessment
4.1	General	P
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	NA



Test Report

Number: SZU010439
SZHH0167437802

Tests Conducted:

Abbreviation: P = Pass

NA = Not applicable

3 **Flammability Test**

Test Standard: European Standard on Safety of Toys EN 71 - 2: 2020.

Clause	Testing items	Assessment
4.1	General requirements	P
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	NA

Abbreviation: P = Pass

NA = Not applicable



Test Report

Number: SZU010439
SZHH0167437802

Tests Conducted:

4 19 Toxic Element Migration Test

(A) Test Result

As per EN 71-3:2019+A1:2021 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, Ion Chromatography with UV-VIS and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg) θ	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(1)to(9)		
Aluminium (Al)	ND	300	28130
Antimony (Sb)	ND	10	560
Arsenic (As)	ND	10	47
Barium (Ba)	ND	10	18750
Boron (B)	ND	50	15000
Cadmium (Cd)	ND	5	17
Chromium (III) (Cr III) #	ND	10	460
Chromium (VI) (Cr VI)	ND	0.025	0.053
Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	23
Manganese (Mn)	ND	10	15000
Mercury (Hg)	ND	10	94
Nickel (Ni)	ND	10	930
Selenium (Se)	ND	10	460
Strontium (Sr)	ND	100	56000
Tin (Sn)	ND	2.5	180000
Organic tin **	ND	5	12
Zinc (Zn)	ND	100	46000

Remark : mg/kg = milligram per kilogram
 ++ = Unless the test results were marked with " Δ ", Organic tin contents were not directly determined and were derived from migration results of total tin.
 - Organic tin test result was expressed as tributyl tin.
 ND = Not detected (less than detection limit)
 θ = Single result for each test component/group
 # = The reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).
 Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation. Other Organic tin compounds may be also be present in sample as stated in EN 71-3:2019+A1:2021.



Test Report

Tests Conducted:

Number: SZU010439
SZHH0167437802

Tested component(s):

- (1) Red plastic (shape spinning sorter).
- (2) Orange plastic (shape spinning sorter).
- (3) Green plastic (base of shape spinning sorter).
- (4) Yellow plastic (shape spinning sorter).
- (5) Sky blue plastic (shape spinning sorter).
- (6) Blue plastic (shape spinning sorter).
- (7) White plastic (shape spinning sorter).
- (8) Purple plastic (shape spinning sorter).
- (9) Orange soft plastic (bottom of base).

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).



Page 8 of 11



Test Report

Number: SZU010439
SZHH0167437802

Tests Conducted:

5 Cadmium (Cd) Content

With reference to test method IEC 62321-5:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (%) θ	Detection Limit (%)
	Tested Component	
	(1)to(7),(8+9),(10),(11),(12+13),(14+15)	
Cadmium (Cd)	ND	0.0005

Limit:

Category	Limit (%)
Wet paint	0.01
Surface coating	0.1
Plastic	0.01
Metal parts of jewellery and hair accessories	0.01

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217, Annex XVII Entry 23 on Cadmium Content.

ND = Not detected (less than detection limit)
 θ = Single result for each test component/group

Tested component(s):

- (1) Red plastic (shape spinning sorter).
- (2) Orange plastic (shape spinning sorter).
- (3) Green plastic (base of shape spinning sorter).
- (4) Yellow plastic (shape spinning sorter).
- (5) Sky blue plastic (shape spinning sorter).
- (6) Blue plastic (shape spinning sorter).
- (7) White plastic (shape spinning sorter).
- (8) Purple plastic (shape spinning sorter).
- (9) Orange soft plastic (bottom of base).
- (10) Silver color metal (rivet of base).
- (11) Coatings on corrugated paper card (color box, insert card).
- (12) Transparent cello-tape (fastener).
- (13) Semi-transparent plastic (cable tie).
- (14) Black plastic (back holder).
- (15) Transparent blister plastic (tray).



Test Report

Number: SZU010439
SZHH0167437802

Tests Conducted:

6 Detection of Amines Derived from Azocolourants and Azodyes

Assessment: Not Applicable.

7 Phthalate Content

With reference to ISO 8124-6:2018, and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

Test Item	CAS No.	Result (%) θ	Detection Limit (%)	Limit (%)
		Tested Component		
		(1)to(9)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	--
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.005	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	--
Sum of DBP, DEHP, BBP and DIBP	--	ND	--	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0	ND	0.005	--
Di-n-octyl phthalate(DNOP)	117-84-0	ND	0.005	--
Di-iso-decyl phthalate (DIDP)	26761-40-0	ND	0.005	--
Sum of DINP, DNOP and DIDP	--	ND	--	0.1

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009 and (EU) 2018/2005, Annex XVII Entry 51 & 52 on Phthalate Content.

ND = Not detected (less than detection limit)

θ = Single result for each test component/group



Test Report

Tests Conducted:

Number: SZU010439
SZHH0167437802

Tested component(s):

- (1) Red plastic (shape spinning sorter).
- (2) Orange plastic (shape spinning sorter).
- (3) Green plastic (base of shape spinning sorter).
- (4) Yellow plastic (shape spinning sorter).
- (5) Sky blue plastic (shape spinning sorter).
- (6) Blue plastic (shape spinning sorter).
- (7) White plastic (shape spinning sorter).
- (8) Purple plastic (shape spinning sorter).
- (9) Orange soft plastic (bottom of base).

End of report

“The items were tested by Intertek Shenzhen, for and on behalf of ITS Testing Services (UK) Limited”

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek.



Page 11 of 11

