

Test Report

Testing institute : Product Technology Service (Ningbo) Co., Ltd.
5,6,7F, 59#, Huayu Road, Yinzhou District, Ningbo, Zhejiang

Applicant : One for Fun Limited
3-5 Cambuslang Way, Gateway Office Park,
Cambuslang, Glasgow, G32 8ND

Product name : SHARK CATCH BALL GAME

Model/type : SV21569/5021813215691

Sample Description : /

Material : /

Sample receive date : Feb.22,2023

Completes date : Mar.13,2023

Test specification(s)

- 1.EN 71-1:2014+A1:2018 Safety of toys-Part 1:Mechanical and physical properties
- 2.EN 71-2:2020 Safety of toys-Part 2:Flammability
- 3.EN 71-3:2019+A1:2021 Safety of toys-Part 3:Migration of certain elements
- 4.Total Cadmium
- 5.7 Phthalates

Conclusion

Pass
Pass
Pass
Pass
Pass

Signed for and on behalf of
Product Technology Service (Ningbo) Co., Ltd.

Mengwei

Authorizer: Meng Wei



The test results exclusively refer to the samples examined. The test report is only used for scientific research, teaching or internal quality control. This report shall not be reproduced except in full without written approval and does not authorize the use of Product Technology Service (Ningbo) Co., Ltd. label. The report is invalid without signature and seal of Product Technology Service (Ningbo) Co., Ltd.

Product Technology Service (Ningbo) Co., Ltd.

5,6,7F, Huayu Road, 59#

Yinzhou District

Ningbo 315192 P.R.China

<http://www.pts-lab.com>

NO: RC-SCNB-R007/02E

Tel: 86-574-83036506

Fax: 86-574-83036508

P.R.:315192

E-mail: info@pts-lab.com

宁波中普检测技术服务有限公司

浙江省宁波市

鄞州区华裕路

59号5、6、7楼

<http://www.pts-lab.com>

电话: 86-574-83036506

传真: 86-574-83036508

邮编: 315192

邮箱: info@pts-lab.com

Product name:

No.	Name	Part No.	Part Name
1	SHARK CATCH BALL GAME	1-1	Green plastic
		1-2	Blue plastic
		1-3	White soft plastic
		1-4	White mesh
		1-5	Green soft ball
		1-6	Black coating
		1-7	White coating
		1-8	Green plastic+blue plastic (mixed-tested)
		1-9	White soft plastic+green soft ball (mixed-tested)
		1-10	Black coating+white coating (mixed-tested)

Remark: According to client's requirement, samples were mixed-tested

1. EN71 - Part1: Mechanical and Physical Properties

Test specification	:	EN 71-1:2014+A1:2018 Safety of toys-Part 1:Mechanical and physical properties
Test item(s)	:	See below
Requirement	:	See below
Labeled age grading	:	3+
Applicant's specified age group for testing	:	3+ years
Age grading for test	:	Over 3 years

Test Results

Clause	Assessment
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4. General requirements

4.1 Material cleanliness	<u>Pass</u>
4.7 Edges	<u>Pass</u>
4.8 Points and metallic wires	<u>Pass</u>
4.22 Small balls	<u>Pass</u>

7. Warnings, markings and instructions for use

Tracking information [CE mark, importer / manufacturer mark (name, address), product identification]	<u>See Remark</u>
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(REMARK: It is drawn to your attention that the product identification number, name and address of manufacturer and importer in EEC country together with CE-marking should appear as specified in Directive-2009/48/EC-Safety of toys)

7.1 General	<u>Pass</u>
7.2 Toys not intended for children under 36 months	<u>Pass</u>

N.B.: Only applicable clauses were shown.
Artwork of packaging was provided for testing.

2. EN71 - Part2: Flammability

Test specification : EN 71-2:2020 Safety of toys-Part 2:Flammability

Test item : See below

Requirement : See below

Test Results

Clause

Assessment

4.1 General

Pass

- The following materials shall not be used in the manufacture of toys
- Cellulose nitrate and materials with the same behaviour in fire
- Materials with a piled surface which produce surface flash on the approach of a flame
- Toys shall not contain flammable gases, extremely flammable liquids, highly flammable liquids,flammable liquids and flammable gels

N.B.: Only applicable clauses were shown.

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
Flammability tester-EN71	Tonny	TNC14

3.EN 71-3:2019+A1:2021 Safety of toys-Part 3:Migration of certain elements

Test method : EN 71-3:2019+A1:2021 Safety of toys-Part 3:Migration of certain elements

Test item : Migration of 19 Elements – with reference to 2009/48/EC and its amendment 2012/7/EU,(EU)2017/738,(EU)2018/725, (EU) 2019/1922

Requirement : See below

Test Product No.				No.1-1	No.1-2	No.1-3	No.1-4
Parameter	Unit	DL	Regulatory Requirement#3	Result	Result	Result	Result
Aluminium (Al)	mg/kg	50.0	28130	ND	ND	ND	ND
Barium (Ba)	mg/kg	50.0	18750	ND	ND	ND	ND
Boron (B)	mg/kg	50.0	15000	ND	ND	ND	ND
Manganese (Mn)	mg/kg	50.0	15000	ND	ND	ND	ND
Strontium (Sr)	mg/kg	50.0	56000	ND	ND	ND	ND
Tin (Sn)	mg/kg	5.0	180000	ND	ND	ND	ND
Zinc (Zn)	mg/kg	50.0	46000	ND	ND	ND	ND
Copper (Cu)	mg/kg	50.0	7700	ND	ND	ND	ND
Antimony (Sb)	mg/kg	1.0	560	ND	ND	ND	12.1
Arsenic (As)	mg/kg	0.50	47	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	0.30	17	ND	ND	ND	ND
Cobalt (Co)	mg/kg	1.0	130	ND	ND	ND	ND
Lead (Pb)	mg/kg	0.50	23	ND	ND	ND	ND
Mercury (Hg)	mg/kg	0.50	94	ND	ND	ND	ND
Nickel (Ni)	mg/kg	10.0	930	ND	ND	ND	ND
Selenium (Se)	mg/kg	5.0	460	ND	ND	ND	ND
Chromium III (CrIII)*	mg/kg	5.0	460	ND	ND	ND	ND
Chromium VI (CrVI)	mg/kg	0.053	0.053	ND	ND	ND	ND
Organic tin	mg/kg	5.0	12	ND	ND	ND	ND
Conclusion				Pass	Pass	Pass	Pass

Test Product No.				No.1-5	No.1-6	No.1-7
Parameter	Unit	DL	Regulatory Requirement ^{#3}	Result	Result	Result
Aluminium (Al)	mg/kg	50.0	28130	ND	ND	ND
Barium (Ba)	mg/kg	50.0	18750	ND	266	117
Boron (B)	mg/kg	50.0	15000	ND	ND	ND
Manganese (Mn)	mg/kg	50.0	15000	ND	ND	ND
Strontium (Sr)	mg/kg	50.0	56000	ND	ND	ND
Tin (Sn)	mg/kg	5.0	180000	ND	ND	ND
Zinc (Zn)	mg/kg	50.0	46000	106	ND	ND
Copper (Cu)	mg/kg	50.0	7700	ND	ND	ND
Antimony (Sb)	mg/kg	1.0	560	ND	ND	ND
Arsenic (As)	mg/kg	0.50	47	ND	ND	ND
Cadmium (Cd)	mg/kg	0.30	17	ND	ND	ND
Cobalt (Co)	mg/kg	1.0	130	ND	ND	ND
Lead (Pb)	mg/kg	0.50	23	ND	ND	ND
Mercury (Hg)	mg/kg	0.50	94	ND	ND	ND
Nickel (Ni)	mg/kg	10.0	930	ND	ND	ND
Selenium (Se)	mg/kg	5.0	460	ND	ND	ND
Chromium III (CrIII)*	mg/kg	5.0	460	ND	ND	ND
Chromium VI (CrVI)	mg/kg	0.053	0.053	ND	ND	ND
Organic tin	mg/kg	5.0	12	ND	ND	ND
Conclusion				Pass	Pass	Pass

Remark:

ND= Not Detected (< DL), DL = Detection Limit.

mg/kg denotes milligram per kilogram

*: Chromium III (CrIII)content equal to the content of total chromium minus hexavalent chromium content

#3: Regulatory Requirement for scraped-off materials

Main test instruments used for this method:

Parameter	Instrument	Manufactory	Model / Type
Al, Ba, B, Cu, Mn, Ni, Se, CrIII, Sr, Zn Sb, As, Cd, Co, Pb, Hg, Sn	ICP-MS	Agilent	7700
CrVI	LC- ICP-MS	Agilent	1260-7700
Organic tin	GC-MS	Agilent	GC (7890)-MS (5975)

4.Test specification : Total Cadmium

Test method : IEC 62321-5: 2013 Determination of Cadmium by ICP-OES

Requirement : Regulation(EU) No 494/2011 , (EU) No 835/2012 and (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006

Part No.	Testing item	Cd	Conclusion
	Detection Limit[mg/kg]	10.0	
	Limit [mg/kg]	100	
1-4	--	ND	Pass
1-8	--	ND	Pass
1-9	--	ND	Pass
1-10	--	ND	Pass

ND = Not Detected (< Detection Limit)

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
ICP-OES	PerkinElmer	Avio 550 Max

5.Test specification : 7 Phthalates

Test method : IEC 62321-8: 2017 Determination of Phthalates by GC-MS

Requirement : Regulation(EC) No 552/2009 and (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006

Test Product No.	Detection Limit	1-8	1-9	1-10	Limit
Dibutyl phthalate (DBP)	0.005%	ND	ND	ND	--
Butyl benzyl phthalate (BBP)	0.005%	ND	ND	ND	--
Di-2-ethylhexyl phthalate (DEHP)	0.005%	ND	ND	ND	--
Diisobutyl phthalate (DIBP)	0.005%	ND	ND	ND	--
Sum(DBP, BBP, DEHP and DIBP)	--	ND	ND	ND	0.1%
Conclusion	--	Pass	Pass	Pass	--
Di- <i>n</i> -octyl phthalate (DNOP)	0.005%	ND	ND	ND	--
Di- <i>iso</i> -nonyl phthalate (DINP)	0.005%	ND	ND	ND	--
Di- <i>iso</i> -decyl phthalate (DIDP)	0.005%	ND	ND	ND	--
Sum(DNOP, DINP and DIDP)	--	ND	ND	ND	0.1%
Conclusion	--	Pass	Pass	Pass	--

ND = Not Detected (< Detection Limit)

-- = Not Regulated

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
GC-MS	Agilent Technologies	GC (7890)-MS (5975C)

Sample photo(s), see annex 1

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Product Technology Service

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ANNEX 1

Sample photo(s), Consists of 1 page(s)



SHARK CATCH BALL GAME