



Test Report

Date : 2022-07-18
No. : DP22061422

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Applicant : 东莞市黄江智圆塑胶制品厂
广东省东莞市黄江镇玉堂围德祥巷8号

Attn: 梁小姐

Description of Samples : One kind of submitted sample(s) said to be :
Item name:海洋球(see the attached photo)
Age Grading for Testing:3+

Date Samples Received : 2022-06-28

Date Tested : 2022-06-28 to 2022-07-01

Investigation Requested : 1.European Standards for Safety of Toys
-EN71-1 :2014 + A1:2018 Mechanical and physical properties
-EN71-2: 2020 Flammability test
-EN71-3 :2019+A1:2021: Migration of certain elements

Conclusion(s) : EN71-1 :2014 + A1:2018 Mechanical and physical properties
The submitted sample(s) **complied** with the test requirement.

EN71-2: 2020 Flammability tests
The submitted sample(s) **complied** with the test requirement.

EN71-3 :2019+A1:2021: Migration of certain elements
The submitted sample(s) **complied** with the test requirement.

WU Chou,Runner
Authorized Signatory

HUANG Qi-yin,Shanny
Authorized Signatory



STC (Dongguan) Company Limited

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Tested components

Plastic materials

(1) Ball: white plastic

AGE GRADING:

The sample did not contain an age grade; however, the applicant requested it be tested according to the age grade of 3 years up

AGE GRADING FOR TESTING:

3 years and up

Test Results:

1. EN71

1.1 EN71-1:2014+A1:2018 - Mechanical and physical properties

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>General requirements</u>	----
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
7	<u>Warning , markings and instructions for use</u>	*
7.1	General	*1

- *=
- (1)The manufacturer or his authorized representative or the importer into the community shall in a visible, easily legible and indelible form affix his name and/or trade name and/or mark and address on the toy or on its packaging.
 - (2)The manufacturer or his authorized representative or the importer into the community shall affix the CE marking as given in Regulation (EC) No 765/2008 of 9 July 2008 as declaration of presumption of conformity with the essential safety requirements of the European Council Directive 2009/48/EC of 18 June 2009 on the safety of toys.
 - (3)The manufacturers must 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.

*1=

See age grading

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1.2 EN71-2: 2020: Flammability test

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General	Pass

1.3 EN71-3 :2019+A1:2021: Migration of certain elements

Method used: EN71-3: 2019+A1:2021

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer,
Inductively Coupled Plasma Mass Spectrometry and Ion Chromatograph with post-column derivatisation and UV/VIS detection.

Category III: Scraped off toy materials

Elements	Result (mg/kg)	Limit (mg/kg)
	(1)	
Aluminium	ND	28130
Antimony	ND	560
Arsenic	ND	47
Barium	ND	18750
Boron	ND	15000
Cadmium	ND	17
Chromium	ND	--
Chromium (III)	ND	460
Chromium (VI)	ND	0.053
Cobalt	ND	130
Copper	ND	7700
Lead	ND	23
Manganese	ND	15000
Mercury	ND	94
Nickel	ND	930
Selenium	ND	460
Strontium	ND	56000
Tin	ND	180000
Organic tin	ND	12
Zinc	ND	46000

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- Notes:
- (1) ND = Not detected (Detection limit see Table C)
 - (2) mg/kg = milligrams per kilogram
 - (3) The Chromium (III) and Chromium (VI) content was determined by screening the soluble Chromium content. When the result of Chromium exceeded the limit of Chromium (III) and Chromium (VI), confirmation test was performed and the Chromium III content was determined by subtracting the Chromium (VI) content from the total Chromium content.
 - (4) The organic tin content was determined by screening the soluble tin content. When the tin content exceeded the limit of organic tin after conversion, confirmation test was performed in accordance with the EN 71-3:2019+A1:2021.

Table C. Detection limit	
Elements	Limit of Detection (mg/kg)
Aluminium	20
Antimony	5
Arsenic	5
Barium	20
Boron	20
Cadmium	2.5
Chromium	0.05
Chromium (III)	0.05
Chromium (VI)	0.03
Cobalt	5
Copper	20
Lead	5
Manganese	20
Mercury	5
Nickel	5
Selenium	5
Strontium	20
Tin	2.5
Organic tin	0.5
Zinc	20

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Appendix for Photos of the Submitted Sample(s)



***** End of Test Report *****

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