



# Test Report

Report No. A2210263538103

Page 1 of 10

**Company Name** H GROSSMAN LIMITED

**shown on Report**

**Address** 3-5 CAMBUSLANG WAY, GATEWAY OFFICE PARK, CAMBUSLANG, GLASGOW,  
G32 8ND

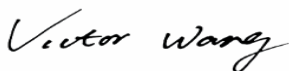
**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client**

Sample Name	Jelly Ball Zurb
Item No.	37068
Supplier	609378
Exported to	Europe
Client Specified Age Grading	5+
Labeled Age Grading	Not stated
Age Group Applied in Testing	Over 5 years
Sample Received Date	Jul. 7, 2021
Testing Period	Jul. 7, 2021 to Jul. 13, 2021

**Test Conducted:**

As requested by the client. For details refer to next page(s)

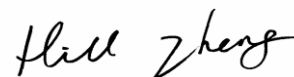
Approved by



Victor Wang

Lab Manager

Jul. 13, 2021



Hill Zheng

Technical Manager

No. T490151831



Date

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

# Test Report

Report No. A2210263538103

Page 2 of 10

**Executive Summary:****TEST REQUEST**

- 1) EN 71-1:2014+A1:2018 European Standard on Safety of Toys  
- Mechanical and Physical Properties(ex labeling&clause 4.22)
- 2) EN 71-2:2020 European Standard on Safety of Toys  
- Flammability
- 3) EN 71-3:2019+A1:2021 European Standard on Safety of Toys  
- Migration of certain elements
- 4) Annex XVII of European regulation (EC) No. 1907/2006 (REACH) with  
Amendment(s)  
- Cadmium and its compounds  
- Phthalates in plasticized materials

**CONCLUSION****PASS****PASS****PASS****PASS****PASS**

\*\*\*\*\* For further details, please refer to the following page(s) \*\*\*\*\*

# Test Report

Report No. A2210263538103

Page 3 of 10

**1) EN 71-1:2014+A1:2018 European Standard on Safety of Toys****▼ Mechanical and Physical Properties**

As specified in European Standard on Safety of Toys EN 71 part 1:2014+A1:2018.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	General requirements	
4.1	Material cleanliness.....	Pass
4.6	Expanding materials.....	Pass
4.7	Edges.....	Pass
4.8	Points and metallic wires.....	Pass
4.22	Small balls .....	N/C
7	Warnings, markings and instructions for use.....	N/C

N/C= Not Conducted

Note:

- Only applicable clause(s) was/ were shown.

# Test Report

Report No. A2210263538103

Page 4 of 10

**2) EN 71-2:2020 European Standard on Safety of Toys****▼ Flammability※**

As specified in European Standard on Safety of Toys EN 71-2:2020.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	Requirements	
4.1	General requirements ..... (The following materials shall not be used in the manufacture of toys except as provided in EN 71-2:2020: Celluloid, highly flammable solids, materials with a piled surface which produce surface flash, flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels.)	Pass

No.	Sample	Flash point(°C)	Acceptable Criteria	Conclusion
(1)	Transparent liquid	>75°C	>60°C	Pass

## Note:

- According to the definition of EN 71-2:2020, liquids with a flash point less than 60°C are considered as flammable liquids.
- “※” indicates the item(s)/method(s) is (are) not in UKAS accreditation scope.
- Only applicable clause(s) was/ were shown.

# Test Report

Report No. A2210263538103

Page 5 of 10

### 3) EN 71-3:2019+A1:2021 European Standard on Safety of Toys

#### ▼ Migration of certain elements※

Method(s) EN 71-3:2019+A1:2021 was/were used, and the item(s) was/were analyzed by ICP-OES, ICP-MS, IC-UV and/or GC-MS.

#### Category III: scraped-off toy material

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>				<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001	002	003	004		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	0.4	N.D.	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	50	46000

# Test Report

Report No. A2210263538103

Page 6 of 10

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Filter paper was used instead of membrane filter in lab testing.
- <sup>#1</sup> Trivalent chromium (Cr (III)) = Chromium (Cr) - Hexavalent chromium (Cr (VI)).
- <sup>#2</sup> Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2019+A1:2021.
- <sup>#3</sup> The migration of organic tin is expressed as tributyltin (TBT). Where the tin content exceeded the limit of organic tin, eleven organic tins listed in the table were determined by GC-MS and the client should note there are other organic tins that may be present in toy materials.

Organic tins tested under EN 71-3:2019+A1:2021
Methyl tin (MeT)
Butyl tin (BuT)
Dibutyl tin (DBT)
Tributyl tin (TBT)
Tetrabutyl tin (TeBT)
n-Octyl tin (MOT)
Di-n-octyl tin (DOT)
Di-n-propyl tin (DProT)
Diphenyl tin (DPhT)
Triphenyl tin (TPhT)
Dimethyl tin (DMT)

- “※” indicates the item(s)/method(s) is (are) not in UKAS accreditation scope.

/ 2020.09.17 章 185

# Test Report

Report No. A2210263538103

Page 7 of 10

#### 4) Annex XVII of European regulation (EC) No. 1907/2006 (REACH) with Amendment(s)

##### ▼ Cadmium and its compounds

As specified in entry 23, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendments No.552/2009 & No.494/2011 & No.835/2012 & No. 2016/217, method(s) EN 1122:2001(E) Method B was/were used, and the item(s) was/were analyzed by ICP-OES.

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>			<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	003	004	005+006+007		
Cadmium (Cd)	N.D.	N.D.	N.D.	2	100

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>			<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	008+009+010	011+012+013	014+015+016		
Cadmium (Cd)	N.D.	N.D.	N.D.	2	100

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001+002		
Cadmium (Cd)	N.D.	2	1000

#### Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- The limit for composite test should be divided by the mixed number.

# Test Report

Report No. A2210263538103

Page 8 of 10

## ▼ Phthalates in plasticized materials

As specified in entry 51, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendments No.552/2009 & No 2015/326 & (EU) 2018/2005, method(s) EN 14372:2004(E) was/were used, and the item(s) was/were analyzed by GC-MS.

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>		<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001+002	003		
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+ DIBP)	N.D.	N.D.	--	1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	50	--
Di-n-octyl Phthalate (DNOP)	N.D.	N.D.	30	--
Diisodecyl Phthalate (DIDP)	N.D.	N.D.	50	--
SUM(DINP+DNOP+DIDP)	N.D.	N.D.	--	1000

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>			<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	004	005+006 +007	008+009 +010		
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+DIBP)	N.D.	N.D.	N.D.	--	1000

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>		<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	011+012+013	014+015+016		
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+DIBP)	N.D.	N.D.	--	1000



# Test Report

Report No. A2210263538103

Page 9 of 10

**Remark:**

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%
- The limit for composite test should be divided by the mixed number.
- Method EN 14372:2004 was accredited by UKAS on six phthalates (DEHP, DBP, BBP, DINP, DIDP, DNOP) test in this report.

**Tested Sample/Part Description**

- 001 White coating(eyes)
- 002 Black coating(eyes)
- 003 Transparent soft plastic(main)
- 004 Transparent dry glue
- 005 Transparent green water bead with transparent liquid
- 006 Transparent light green water bead with transparent liquid
- 007 Transparent blue water bead with transparent liquid
- 008 Transparent dark blue water bead with transparent liquid
- 009 Transparent water bead with transparent liquid
- 010 Transparent purple water bead with transparent liquid
- 011 Transparent red water bead with transparent liquid
- 012 Transparent mauve water bead with transparent liquid
- 013 Transparent pink water bead with transparent liquid
- 014 Transparent orange water bead with transparent liquid
- 015 Transparent yellow water bead with transparent liquid
- 016 Transparent light red water bead with transparent liquid

# Test Report

Report No. A2210263538103

Page 10 of 10

## Photo(s) of the sample(s)



### Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. Company Name and Address shown on Report, the sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full.

\*\*\* End of Report \*\*\*