

Test Report

Report No.: ECL01G033256

Page 1 of 7

Report on the submitted sample(s) said to be:

Sample Name : thinking putty, silly putty, hand gum, bouncing putty
Quantity of Sample : 1pc
Client Specified Age Grading : NOT STATED
Labeled Age Grading : NOT STATED
Age Group Applied in Testing : 3+ YEARS
Sample Received Date : Dec.23, 2014
Further Information Date : Dec.30, 2014
Sample Tested Date : Dec.23, 2014 to Dec.30, 2014

Test Conducted:

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

Tested by

Melan Tang

Reviewed by

Hester Huang

Approved by

Victor Wang

Victor Wang
Lab Manager

Date

Dec. 30, 2014

No. T149324772

Centre Testing International Co., Ltd. Shanghai Branch

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Test Report

Report No.: ECL01G033256

Page 2 of 7

Executive Summary:

TEST REQUEST

European Standard on Safety of Toys:

- EN 71-1:2011+A3:2014 Mechanical and Physical Properties
- EN 71-2:2011+A1:2014 Flammability of Toys
- EN 71-3:2013 Migration of certain elements
- Labeling requirement (CE mark, Manufacture/Importer mark and product identification)—Directive 2009/48/EC Safety of toys

CONCLUSION

PASS

PASS

PASS

**REFER TO NEXT
PAGES**

For chemical test, the tested components are identified by the applicant.

***** For Further Details, Please Refer To the Following Page(s) *****

Test Report

Report No.: ECL01G033256

Page 3 of 7

EUROPEAN STANDARD ON SAFETY OF TOYS

▼ Mechanical and physical properties

As specified in European Standard on Safety of Toys EN 71 part 1:2011+A3:2014.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	General requirements	
4.1	Material cleanliness.....	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
7	Warnings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	N/A

N/A=Not Applicable

▼ Flammability of Toys

As specified in European Standard on Safety of Toys EN 71 part 2:2011+A1:2014.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	Requirements	
4.1	General	Pass
	(The following materials shall not be used in the manufacture of toys except as provided in EN 71-2:2011+A1:2014 : Celluloid, materials with the same behaviour in fire as celluloid, materials with a piled surface which produce surface flash, flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels.)	

Test Report

Report No.: ECL01G033256

Page 4 of 7

Labeling requirement (CE mark, importer / manufacturer name and address, product identification) according to the Directive 2009/48/EC – Safety of toys

Summary table:

	Observation Result	Location
CE mark	Not Found	/
Importer's Name & Address	Not Found	/
Manufacturer's Name & Address	Not Found	/
Product ID	Found	Packaging

Note:

①: Toys made available on the market must bear the CE marking. The CE marking must be subject to the general principle set out in Article 30 of Regulation (EC) NO 765/2008. The CE marking must be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging. In the case of small toys and toys consisting of small parts, the CE marking may alternatively be affixed to a label or an accompanying leaflet. Where, in the case of toys sold in counter displays, that is not technically possible, and on condition that the counter display was originally used as packaging for the toy, the CE marking may be affixed to the counter display. Where the CE marking is not visible from outside the packaging, if any, it shall as a minimum be affixed to the packaging. Where specific legislation does not impose specific dimensions, the CE marking must be at least 5 mm high.

②: The manufacturer's name registered trade name or registered trade mark and the address at which the manufacture can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer.

③: Manufacturer 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.

Test Report

Report No.: ECL01G033256

Page 5 of 7

▼ Migration of certain elements

As specified in European standard on safety of toys EN 71-3:2013 - Migration of certain elements, acid extraction method was used and toxic elements content were determined by ICP-OES, ICP-MS, IC-ICP-MS and GC-MS.

Category I : dry, brittle, powder-like or pliable toy material

<u>Tested Item</u>	<u>Result (mg/kg)</u>	<u>MDL</u>	<u>Limit</u>
	Red silly putty	(mg/kg)	(mg/kg)
Aluminium (Al)	ND	50	5625
Antimony (Sb)	ND	2	45
Arsenic (As)	ND	0.1	3.8
Barium (Ba)	ND	50	1500
Boron (B)	668	50	1200
Cadmium (Cd)	ND	0.2	1.3
Chromium (Cr) ^{#1}	0.221	0.004	--
Chromium (III) ^{#2}	0.221	--	37.5
Chromium (VI)	ND	0.001	0.02
Cobalt (Co)	ND	0.2	10.5
Copper (Cu)	ND	50	622.5
Lead (Pb)	ND	1	13.5
Manganese (Mn)	ND	50	1200
Mercury (Hg)	ND	0.6	7.5
Nickel (Ni)	ND	5	75
Selenium (Se)	ND	5	37.5
Strontium (Sr)	ND	50	4500
Tin (Sn) ^{#3}	ND	0.37	15000
Organic tin (TBT) ^{#4}	ND	0.2	0.9
Zinc (Zn)	ND	50	3750

Test Report

Report No.: ECL01G033256

Page 6 of 7

Remark:

- mg/kg = milligram per kilogram = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Filter paper was used instead of membrane filter in lab testing.
- ^{#1} Chromium (Cr) content can be used for screen test for hexavalent chromium and trivalent chromium analysis and to show compliance with the requirement of EN 71-3:2013.
- ^{#2} Chromium (Cr) = Hexavalent chromium (Cr (VI)) +Trivalent chromium (Cr (III)), where the chromium content exceeded the limits of hexavalent chromium amd/or trivalent chromium, then hexavalent chromium was analyzed by HPLC-ICP-MS and trivalent chromium content was calculated using the formula.
- ^{#3} Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2013.
- ^{#4} The migration of organic tin is expressed as tributyltin (TBT). where the tin content exceeded the limit of organic tin, ten organic tins listed in table were determined by GC-MS and the client should be noted there are other organic tins may be present in toy materials.

Organic tins tested under EN 71-3:2013
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)

Note:

- Only applicable clauses were shown.

Test Report

Report No.: ECL01G033256

Page 7 of 7

Photo of the sample



*** End of Report ***

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