CTI 华测检测

UKAS TESTING 4343

Test Report

Report No. A2210201058109

Company Name shown on Report	H GROSSMAN LIMITED
Address	3-5 CAMBUSLANG WAY, GATEWAY OFFICE PARK, CAMBUSLANG, GLASGOW, G32 8ND., UK.

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

Sample Name	DINOSAUR SMALL ASSORTED / DINO STEGOSAURUS S / DINO SPINOSAURUS S / DINO TRICERATOPS S
Item No.	SV20960 / SV20984 / SV20985 / SV20986
Supplier	USD046
Country of Origin	Sri Lanka
Exported to	Europe
Client Specified Age Grading	Over 4 years of age
Labeled Age Grading	Not stated
Age Group Applied in Testing	Over 4 years
Sample Received Date	Jun. 17, 2021
Testing Period	Jun. 17, 2021 to Jun. 24, 2021

Test Conducted:

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

Approved by

Victor Wang
Lab Manager

Hill Zheng
Technical Manager

Date Jun. 24, 2021 No. T490151240

Centre Testing International Group Co.,Ltd.
C/11 Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

Executive Summary:

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

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

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.

Clause	Description	Assessment
4	General requirements	
4.1	Material cleanliness.....	Pass
4.7	Edges.....	Pass
4.8	Points and metallic wires.....	Pass
7	Warnings, markings and instructions for use……....	N/C

N/C= Not Conducted

Note:

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

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.

Clause	Description	Assessment
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
4.5	Soft-filled toys ……..…..…….. …….	Pass (See Note 1)

Note 1:

Soft-filled toys (Clause 4.5)

Sample	Burning rate (mm/sec)
Dinosaur	DNI

(The rate of spread of flame on the surface of toy shall not be greater than 30 mm/sec)

DNI = Did Not Ignite

Note:

- Only applicable clause(s) was/ were shown.
- "※" indicates the item(s)/method(s) is (are) not in UKAS accreditation scope.

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, HPLC-ICP-MS and/or GC-MS.

Category Ⅲ: scraped-off toy material

Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	001	002	003	004	005		
Aluminium (Al)	154	170	130	144	143	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	1.4	1.0	1.0	1.6	1.5	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	2	2	3	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	739	1113	717	859	1073	50	46000

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Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	006	007	008	009	010		
Aluminium (Al)	135	150	170	163	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	1.1	3.1	2.0	1.0	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	2	N.D.	3	3	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	956	979	1246	1354	105	50	46000

Test Report

Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	011	012	013	014	015		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	0.3	0.4	0.4	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	212	128	90	105	54	50	46000

Test Report

Tested Item(s)	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	016		
Aluminium (Al)	N.D.	50	28130
Antimony (Sb)	N.D.	5	560
Arsenic (As)	N.D.	5	47
Barium (Ba)	N.D.	50	18750
Boron (B)	N.D.	50	15000
Cadmium (Cd)	N.D.	1	17
Chromium (III) #1	N.D.	0.2	460
Chromium (VI)	N.D.	0.002	0.053
Cobalt (Co)	N.D.	5	130
Copper (Cu)	N.D.	50	7700
Lead (Pb)	N.D.	1	23
Manganese (Mn)	N.D.	50	15000
Mercury (Hg)	N.D.	5	94
Nickel (Ni)	N.D.	5	930
Selenium (Se)	N.D.	5	460
Strontium (Sr)	N.D.	50	56000
Tin (Sn) #2	N.D.	2	180000
Organic tin (TBT) #3	N.D.	0.05	12
Zinc (Zn)	195	50	46000

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.
- #1 Trivalent chromium (Cr (III)) = Chromium (Cr) - Hexavalent chromium (Cr (VI)).
- #2 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.
- #3 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.

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.

Tested Item(s)	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	001	002+003	004+005		
Cadmium (Cd)	N.D.	N.D.	N.D.	2	1000

Tested Item(s)	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	006+007	008+009		
Cadmium (Cd)	N.D.	N.D.	2	1000

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

Tested Item(s)	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	017	018+019+020		
Cadmium (Cd)	N.D.	N.D.	2	100

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.

▼**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.

Tested Item(s)	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	001	002+003	004+005	006+007		
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+ DIBP)	N.D.	N.D.	N.D.	N.D.	--	1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	N.D.	N.D.	50	--
Di-n-octyl Phthalate (DNOP)	N.D.	N.D.	N.D.	N.D.	30	--
Diisodecyl Phthalate (DIDP)	N.D.	N.D.	N.D.	N.D.	50	--
SUM(DINP+DNOP+DIDP)	N.D.	N.D.	N.D.	N.D.	--	1000

Tested Item(s)	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	008+009	010+011 +012	013+014	015+016		
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+ DIBP)	N.D.	N.D.	N.D.	N.D.	--	1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	N.D.	N.D.	50	--
Di-n-octyl Phthalate (DNOP)	N.D.	N.D.	N.D.	N.D.	30	--
Diisodecyl Phthalate (DIDP)	N.D.	N.D.	N.D.	N.D.	50	--
SUM(DINP+DNOP+DIDP)	N.D.	N.D.	N.D.	N.D.	--	1000

Tested Item(s)	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	017	018+019+020		
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

Remark:

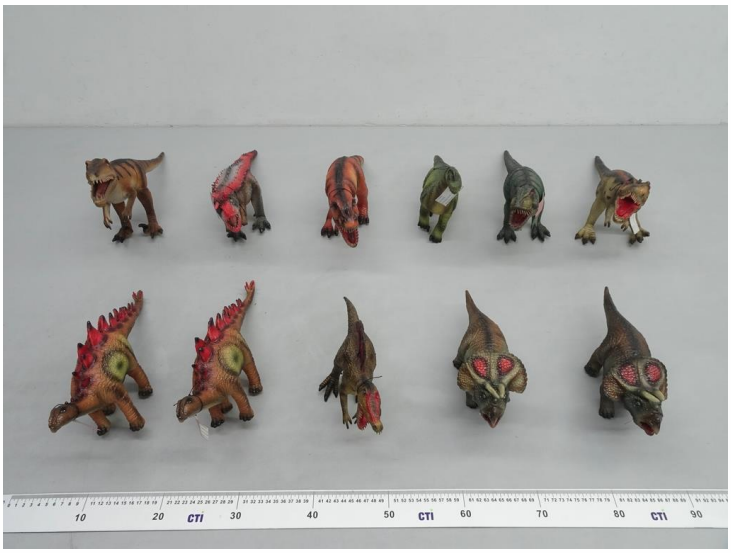
- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%
- The limit for composite test should be divided by the mixed number.
- Method EN 14372:2004 was accredited by UKAS on six phthalates (DEHP, DBP, BBP, DINP, DIDP, DNOP) test in this report.

Tested Sample/Part Description

001	Multi-color coating(main,SV20960(#21637),SV20984(#21637))
002	Multi-color coating(main,SV20960(#21635),SV20986(#21635))
003	Multi-color coating(main,SV20960(#21633))
004	Multi-color coating(main,SV20960(#21636))
005	Multi-color coating(main,SV20960(#21632))
006	Multi-color coating(main,SV20960(#21630))
007	Multi-color coating(main,SV20960(#21634))
008	Multi-color coating(main,SV20960(#21631))
009	Multi-color coating(main,SV20985(#21669))
010	Beige yellow soft plastic with adhesive(main,SV20960(#21637),SV20960(#21630))
011	Beige brown soft plastic with adhesive(main,SV20984(#21637),SV20985(#21669))
012	Light brown soft plastic with adhesive(main,SV20960(#21635))
013	Dull beige brown soft plastic with adhesive(main,SV20986(#21635))
014	Beige soft plastic with adhesive(main,SV20960(#21633),SV20960(#21636),SV20960(#21632))
015	Brown soft plastic with adhesive(main,SV20960(#21634))
016	Dull brown soft plastic with adhesive(main,SV20960(#21631))
017	Transparent grey dry glue(support of inside,SV20960(#21637),SV20960(#21633),SV20960(#21636), SV20960(#21632),SV20985(#21669))
018	Light yellow dry glue(support of inside,SV20984(#21637),SV20960(#21631))
019	Yellow dry glue(support of inside,SV20960(#21630))
020	Brown dry glue(support of inside,SV20960(#21634))

Test Report

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 ***