



Test Report

Report No. A2210201058108

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Company Name H GROSSMAN LIMITED

shown on Report

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 XL T REX LENGTH - 92CM / DINOSAUR XL VELOCIRAPTOR / DINOSAUR XL TRICERATOPS / DINOSAUR LARGE T REX / DINOSAUR LARGE VELOCIRAPTOR / DINOSAUR LARGE SPINOSAURUS / DINO CERATOSAURUS XL / DINO SPINOSAURUS XL / DINO BRACHIOSAURUS L / DINO STEGOSAURUS L / DINO ANKYLOSAURUS L / DINO T-REX L
Item No.	SV20026/SV20955/SV20956/SV20957/SV20958/SV20959/SV20978/ SV20979/SV20980/SV20981/SV20982/SV20983
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. 18, 2021
Testing Period	Jun. 18, 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

Jun. 24, 2021



Hill Zheng

Technical Manager

No. T490158992



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

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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) *****

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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
4.7	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.

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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
4.5	Soft-filled toys	Pass (See Note 1)

Note 1:

Soft-filled toys (Clause 4.5)

<u>Sample</u>	<u>Burning rate (mm/sec)</u>
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.

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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

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>					<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001	002	003	004	005		
Aluminium (Al)	160	151	132	162	155	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	0.6	1.5	0.7	1.9	1.4	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	N.D.	2	2	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.	54	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)	864	793	1263	859	885	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)	120	163	133	142	154	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	0.9	1.6	1.8	1.3	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.	2	N.D.	2	2	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)	806	1037	890	752	824	50	46000

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Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	011	012	013	015	016		
Aluminium (Al)	194	139	165	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	1.2	1.7	1.3	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.	2	2	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)	320	949	869	N.D.	76	50	46000

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<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>		<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	017	018		
Aluminium (Al)	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	1	17
Chromium (III) #1	0.4	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	0.05	12
Zinc (Zn)	159	111	50	46000

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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.

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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)
	001+002	003+004	005+006		
Cadmium (Cd)	N.D.	N.D.	N.D.	2	1000

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>			<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	007+008	009+010	011+012		
Cadmium (Cd)	N.D.	N.D.	N.D.	2	1000

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	013		
Cadmium (Cd)	N.D.	2	1000

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>			<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	014	015+016+017	018		
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)
	019+020+021		
Cadmium (Cd)	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.

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▼ 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 (mg/kg)</u>	<u>Limit (mg/kg)</u>
	001+002	003+004	005+006	007+008		
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

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>				<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	009+010	011+012	013	015+016 +017		
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

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

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>		<u>MDL</u>	<u>Limit</u>
	014	019+020+021	(mg/kg)	(mg/kg)
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.

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Tested Sample/Part Description

- 001 Multi-color coating(body,Triceratops)
- 002 Multi-color coating(body,ankylosaurus)
- 003 Multi-color coating(body,dark brown velociraptor)
- 004 Multi-color coating(body,kelly velociraptor)
- 005 Multi-color coating(body,brachiosaurus)
- 006 Multi-color coating(body,big spinosaurus)
- 007 Multi-color coating(body,small spinosaurus)
- 008 Multi-color coating(body,ceratosaurus)
- 009 Multi-color coating(body,stegosaurus)
- 010 Muti-color coating(body,grey tyrannosaurus)
- 011 Muti-color coating(body,green tyrannosaurus)
- 012 Muti-color coating(body,dark green tyrannosaurus)
- 013 Muti-color coating(body,grey brown tyrannosaurus)
- 014 Yellow sponge(inside,tyrannosaurus)
- 015 Beige brown soft plastic with adhesive(head/body,green tyrannosaurus&main,kelly velociraptor)
- 016 Light brown soft plastic with adhesive(tail,green tyrannosaurus&grey tyrannosaurus&body,small spinosaurus)
- 017 Brown soft plastic with adhesive(head/body,grey tyrannosaurus&main,brachiosaurus)
- 018 Khaki soft plastic with adhesive(main,stegosaurus/ceratosaurus/big spinosaurus&main,dark brown velociraptor/dark green tyrannosaurus/grey brown tyrannosaurus/ankylosaurus/Triceratops)
- 019 Dark brown dry glue(on support of inside,green tyrannosaurus/kelly velociraptor/dark brown velociraptor/dark green tyrannosaurus/grey brown tyrannosaurus)
- 020 Brown dry glue(on support of inside,grey tyrannosaurus/brachiosaurus/small spinosaurus)
- 021 Trasnlucuent dry glue(on support of inside,stegosaurus/ceratosaurus/big spinosaurus/ankylosaurus)

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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 ***