Test Report Number: SHAH01345613

Applicant: GREENBRIER GAMES
8 BLAKE CIRCLE,MARLBOROUGH
MA 01752,USA
Attn: JEFF GRACIA

Date: 09 Jun, 2021

Sample Description:

Two (2) sets of submitted sample said to be :

Item Name	:	Tales of BarBEARia -BB3 Main game,Tales of BarBEARia-BB4 Candy Horde Expansion,Tales of BarBEARia-BB5 set of seven pins
Labelled Age Group	:	10+
Packaging Provided By Applicant	:	Yes
Buyer	:	Greenbrier Games
Goods Exported To	:	USA
Country Of Origin	:	China

****

Tests Conducted:

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

****

Conclusion:

Tested Samples	Standard	Result
Submitted Sample sets	U.S. ASTM F963-17 - Physical And Mechanical Tests	Pass
	U.S. ASTM F963-17 - Flammability Test of Materials Other Than Textile Materials	Pass
Tested components of submitted sample	U.S. ASTM F963-17 for total Lead content in surface coating	Pass
	U.S. ASTM F963-17 for total Lead content in non-surface coating	Pass
Tested components of submitted sample	U.S. ASTM F963-17 for soluble elements content in surface coating	Pass
Tested components of submitted sample	U.S. ASTM F963-17 section 4.3.5.2(2)(b) for soluble elements content for non-surface coating materials	Pass

****

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai

Bill Zhang
General Manager

INTERTEK TESTING SERVICES LTD., SHANGHAI 上海天祥质量技术服务有限公司 检验检测专用章

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Test Report Number: SHAH01345613

Tested Samples	Standard	Result
Tested components of submitted sample	U.S. Code of Federal Regulations title 16 part 1303 for total Lead content in surface coating	Pass
	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating	Pass
	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate)	Pass
	US Consumer Product Safety Improvement Act 2008 Title I, Sec 108(a) & (b)(3) and US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass
	The heavy metals content in packaging requirements of Model Toxics Legislation of the Toxics in packaging Clearinghouse, TPCH (formerly known as CONEG Legislation)	Pass
	US California Proposition 65 -- Phthalate content	Pass
	California Proposition 65 for Toys, Consent Judgement No. RG-356892 -Total Lead (Pb) content	Pass

****

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai

Bill Zhang
General Manager

INTERTEK TESTING SERVICES LTD., SHANGHAI 上海天祥质量技术服务有限公司 检验检测专用章

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01345613

Tests Conducted

1 Physical and Mechanical Tests

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Applicant's Specified Age Group for Testing： For Ages over 10 years

Section	Testing Items	Assessment
4.1	Material Quality	P
4.5	Sound-Producing Toys	NA
4.6.1	Toys Intended for Children under 36 Months (Small Objects)	NA
4.6.2	Mouth-Actuated Toys	NA
4.6.3	Toys And Games for 36 Months to 72 Months (Small Part Warning)	NA
4.7	Accessible Edges	NA
4.8	Projections	NA
4.9	Accessible Points	NA
4.10	Wires Or Rods	NA
4.11	Nails And Fasteners	NA
4.12	Plastic Film	P
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords, Straps, and Elastics	NA
4.15	Stability and Over-Load Requirements	NA
4.16	Confined Spaces	NA
4.17	Wheels, Tires and Axles	NA
4.18	Holes, Clearance, and Accessibility of Mechanisms	NA
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.25	Battery-Operated Toys	NA
4.26	Toys Intended to be Attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Test Report Number: SHAH01345613

Tests Conducted

Section	Testing Items	Assessment
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labelling Requirement	P
6	Instructional Literature	P
7	Producer's Markings	
	- Name of Producer/Distributor (Package)	Yes
	- Address (Package)	Yes

P = Pass NA = Not Applicable

Date Sample Received: May 26, 2021 & Jun.8, 2021
Testing Period: May 26, 2021 to Jun.9, 2021

2 Flammability Test

As per section 4.2 of the ASTM Standard Consumer Safety Specification On Toy Safety F963-17.

Result = Ignited But Self-Extinguished before Burn Rate Could be Determined

Date Sample Received: May 26, 2021
Testing Period: May 26, 2021 to May 29, 2021

3 Total Lead (Pb) Content for Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, test method CPSC-CH-E1003-09.1 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested component	Result in ppm	Limit (ppm)
(1+2)	<20	90
(3)	<20	90

Remark: ppm = parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date sample received: May 26, 2021
Testing period: May 26, 2021 To Jun.9, 2021

****

To be continued

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Tests Conducted

4 Total Lead (Pb) Content for Non-surface Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, test method CPSC-CH-E1001-08.3 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested component	Result in ppm	Limit (ppm)
(4+5+6)	<10	100
(7+8+9)	<10	100
(10+11)	<10	100
(12)	<10	100
(13)	<10	100

Remark: ppm = parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date sample received: May 26, 2021
Testing period: May 26, 2021 To Jun.9, 2021

5 Soluble Elements Analysis In Surface Coating

As per section 4.3.5.1(2) of the ASTM standard consumer safety specification on toy safety F963-17, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

	Result (ppm) (3)	Limit (ppm)
Sol. Barium (Ba)	<5	1000
Sol. Lead (Pb)	<5	90
Sol. Cadmium (Cd)	<5	75
Sol. Antimony (Sb)	<5	60
Sol. Selenium (Se)	<5	500
Sol. Chromium (Cr)	<5	60
Sol. Mercury (Hg)	<5	60
Sol. Arsenic (As)	<2.5	25

Remark : Sol. = soluble
ppm = parts per million = mg/kg
spl.wt. = sample weight

Tested components : See component list in the last section of this report.

The sample weight in bracket was for soluble heavy metal elements analysis only.

Remark : @ = Since the sample weight of the components (1), (2) were less than 10 mg, soluble elements analysis was not conducted. Only total Lead content was tested.

Date sample received: May 26, 2021
Testing period: May 26, 2021 To Jun.9, 2021

****

To be continued

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01345613

Tests Conducted

6 Soluble Elements Analysis In Non-Surface Coating Materials (Substrate Except Modelling Clay)

As per section 4.3.5.2(2)(b) of the ASTM standard consumer safety specification on toy safety F963-17, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

	Result (ppm)									Limit (ppm)
	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
Sol. Barium (Ba)	<5	<5	<5	<5	<5	<5	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	<5	<5	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	<5	<5	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	<5	<5	<5	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	<5	<5	<5	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25

Remark：Sol. = soluble
ppm = parts per million = mg/kg

Tested components：See component list in the last section of this report.

Date sample received： May 26, 2021
Testing period： May 26, 2021 To Jun.9, 2021

7 Total Lead (Pb) Content In Surface Coating

As per standard operating procedure for determining Lead (Pb) in paint and other similar surface coatings (April 26, 2009), test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result (ppm)	Limit (ppm)
(1+2)	<20	90
(3)	<20	90

The limit was quoted according to U.S. Code of Federal Regulations title 16 part 1303 and U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating.

Remark：ppm = Parts per million = mg/kg

Tested Components：See component list in the last section of this report.

Date sample received： May 26, 2021
Testing period： May 26, 2021 To Jun.9, 2021

****

To be continued

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01345613

Tests Conducted

8 Total Lead (Pb) Content In Non-Surface Coating Materials (Substrate)

As per standard operating procedures for determining total Lead (Pb) in children's products, test method(s) CPSC-CH-E1002-08.3 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result (ppm)	Limit (ppm)
(4+5+6)	<10	100
(7+8+9)	<10	100
(10+11)	<10	100
(12)	<10	100
(13)	<10	100

The limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate).

Remark：ppm = Parts per million = mg/kg

Tested Components：See component list in the last section of this report.

Date sample received： May 26, 2021
Testing period： May 26, 2021 To Jun.9, 2021

9 Phthalate Content

With reference to CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	Result (%)			Limit (%) (Max.)
	(1+2)	(3)	(4+5+6)	
Dibutyl phthalate (DBP)	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	0.1

****

To be continued

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Test Report Number: SHAH01345613

Tests Conducted

Test item	Result (%)			Limit (%) (Max.)
	(7+8+9)	(10+11)	(12)	
Dibutyl phthalate (DBP)	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	0.1

The above limit was quoted according to 16 CFR part 1307 approved by U.S. Consumer Product Safety Commission (CPSC) for prohibition of children's toys and child care articles containing specified phthalates.

Remark: ND = Not Detected
Detection Limit = 0.01%

Tested Component(s): See component list in the last section of this report.

Date sample received: May 26, 2021
Testing period: May 26, 2021 To Jun.9, 2021

10 Toxic Elements Analysis

As per Model Toxics in packaging legislation requirement of packaging and packaging components, acid digestion method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

	Result in ppm					Limit (ppm)
	(14)	(15)	(16)	(17)	(18)	
Lead (Pb)	<5	<5	<5	<5	<5	--
Cadmium (Cd)	<1	<1	<1	<1	<1	--
Mercury (Hg)	<5	<5	<5	<5	<5	--
Chromium VI (Cr (VI))	<1	<1	<1	<1	<1	--
Total	(0~12)	(0~12)	(0~12)	(0~12)	(0~12)	100

Remark: ppm = Parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date sample received: May 26, 2021
Testing period: May 26, 2021 To Jun.9, 2021

****

To be continued

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01345613

Tests Conducted

11 Phthalate Content

With reference to CPSC-CH-C1001-09.3 and by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (%, w/w)			Limit (%, w/w)
	(1+2)	(3)	(4+5+6)	
Dibutyl phthalate (DBP)	ND	ND	ND	0.1
Diethyl hexyl phthalate (DEHP)	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	0.1
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	0.1
Di-n-hexyl phthalate (DnHP)	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	--

	Result (%, w/w)			Limit (%, w/w)
	(7+8+9)	(10+11)	(12)	
Dibutyl phthalate (DBP)	ND	ND	ND	0.1
Diethyl hexyl phthalate (DEHP)	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	0.1
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	0.1
Di-n-hexyl phthalate (DnHP)	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	--

Remark：The above limit was quoted from the Consent Judgment No.BG-350969 settled by superior court of the State of California for the county of Alameda, for toys based on the California Proposition 65.

ND = Not Detected
Detected Limit = 0.01%(w/w)

Tested Component(s)：See component list in the last section of this report

Date sample received： May 26, 2021
Testing period： May 26, 2021 To Jun.9, 2021

****

To be continued

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Tests Conducted

12 Total Lead (Pb) Content

With reference to US EPA method 3050B/3051,acid digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result (ppm)	Requirement (ppm)
(1+2)	<10	90
(3)	<10	90
(4+5+6)	<10	100
(7+8+9)	<10	100
(10+11)	<10	100
(12)	<10	100

The above limit was quoted from the Consent Judgement No.RG-356892, settled by superior court of the state of California for the County of Alameda, for Toy based on the California proposition 65.

Remark：ppm = Parts per million = mg/kg

Tested Components：See component list in the last section of this report.

Date sample received： May 26, 2021
Testing period： May 26, 2021 To Jun.9, 2021

****

To be continued

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Test Report Number: SHAH01345613

Tests Conducted

****

To be continued

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司

Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233

Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01345613

Tests Conducted

Components List：

(1) White coating on plastic. (dice)
(2) Black coating on plastic. (dice)
(3) Four-color printed coatings on paper. (instruction/tile/cards/box)
(4) Transparent red plastic excluding coatings. (dice)
(5) Transparent yellow plastic excluding coatings. (dice)
(6) Transparent purple plastic excluding coatings. (dice)
(7) Transparent green plastic excluding coatings. (dice)
(8) Transparent orange plastic excluding coatings. (dice)
(9) Transparent blue plastic excluding coatings. (dice)
(10) Black plastic excluding coating. (dice)
(11) Transparent pink plastic. (bear)
(12) White paper with transparent plastic film and underlying coatings. (character)
(13) Silver color metal. (staple)
(14) Transparent plastic film with semi-transparent soft plastic. (poly bag)
(15) Transparent adhesive plastic film. (poly bag)
(16) Brown paper board with four-color printed coatings. (tray)
(17) Transparent plastic film with underlying golden color coating. (shrink film)
(18) Transparent plastic film. (box cover)

****

End of report

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn