

TEST REPORT

Applicant : UNBELIEVABLE GAMES PTY LTD

Address : 304-318 The Kingsway, CARINGBAH NSW 2229

Sample description : CAULDRON CALL BOARD GAME

Item no. : CC-GAME-01

Country of origin : China

Country to import : US / EU / UK

Manufacturer : Panda Game Manufacturing Limited

Age requested on application form : 8+

Labelled age grade : 8+

Age grade applied in testing : Over 8 Years

Sample received date : 27 - Jul - 2026

Turn around time : 30 - Jul - 2026 to 12 - Aug - 2026

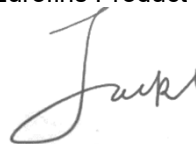
The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Mechanical and Physical Properties	ASTM F963-23	Pass
Flammability of Toys	ASTM F963-23, Section 4.2	Pass
Tracking Label Assessment	US CPSIA, Section 103	Pass
Physical and Mechanical Hazards	CPSC Regulations	Not Applicable
Flammability Test	16 CFR 1500.3(c)(6)(vi)	Pass
Phthalates Content	ASTM F963-23, Section 4.3.8	Pass
Total Lead Content in Substrate	US CPSIA, Section 101(15 U.S.C. § 1278a)	Pass
Total Lead Content in Paint / Surface Coating	US CPSIA, Section 101(15 U.S.C. § 1278a)	Pass
Phthalates Content	CPSC 16 CFR part 1307	Pass
Phthalates Content	US California Proposition 65	Pass
Total Lead Content	US California Proposition 65	Pass
Total Lead Content	US 16 CFR 1303	Pass
Heavy Metals	ASTM F963-23, Section 4.3.5	Pass
Total Lead Content in Paint and Other Similar Surface Coatings	Illinois Lead Poisoning Prevention Act (LPPA)	Pass
Total Cadmium Content	US California Proposition 65	Pass

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Changzhou) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. Unless otherwise stated from the customer, regulation or the standard specification, Eurofins will apply it in accordance with ILAC G8:09/2019-(binary statement for simple acceptance rule). If you happen to have any comments, please do it by sending email to info.cz@cpt.eurofinscn.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Changzhou) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint.cz@cpt.eurofinscn.com and referring to this report number.

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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins Product Testing Service (Changzhou) Co., LtdJack Ma
Hardline Lab ManagerMarry Ma
Assistant Manager

SAMPLE PHOTO(S)



A



A



A



A

EFBH26071733-CG-02

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Sample No.
1	Deep blue coating bottom	A
2	White coating dice	A
3	Grey plastic faucet	A
4	Purple plastic wheels	A
5	Black matte plastic body	A
6	Black glossy plastic back	A
7	Black plastic plug	A
8	Ginger yellow plastic component	A
9	Transparent plastic hang tag	A
10	Green transparent plastic dice	A
11	Purple transparent plastic dice	A
12	Black soft plastic wheels	A
13	Black soft plastic charging cable	A
14	Transparent soft plastic with adhesive book	A
15	Multi color printing paper with transparent film cardboard	A
16	Multi-color printed card	A
17	Multi colored printing paper game book	A
18	Brown cardboard	A
19	Silver metal screw with black plating	A

TO BE CONTINUED

TEST RESULT

Mechanical and Physical Properties

Test Request: As specified in Consumer Safety Specification ASTM F963-23

Test Sample: A

Section	Description	Result
4.1	Material Quality	P
4.3.7	Stuffing Materials	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	N/A
4.6.1	Toys that are intended for children under 36 months of age	N/A
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Toys that are intended for children over 36 months but less than 72 months	N/A
4.7	Accessible Edges	N/A
4.8	Projections	N/A
4.8.1	Bath Toy Projections	N/A
4.9	Accessible Points	N/A
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	P
4.12	Plastic Film	P
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearances, and Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25**	Battery-Operated Toys	P
4.25.1	Marking	P
4.25.1.1	Toys containing non-replaceable batteries shall be labeled in accordance with 5.14.	P
4.25.2	Current potential	P
4.25.3	Not possible to charge any non-rechargeable battery.	N/A
4.25.4	Battery Accessibility	P
4.25.4.1	Normal use and abuse test of toys for children under three years old	N/A
4.25.4.2	Abuse test of toys with small battery	N/A
4.25.4.3	Fastener remain attached	P
4.25.4.4	Specialty fastener	N/A
4.25.5	Batteries of different types or capacities shall not be mixed	P
4.25.6	The temperature of the batteries surface	P
4.25.6.1	battery-operated toys intended for children 96 months or less shall meet this requirement after reasonably foreseeable abuse.	P
4.25.6.2	Test for a stalled motor condition according to the procedures of 8.17 to determine conformance with the temperature limits	P

TO BE CONTINUED

TEST RESULT

Section	Description	Result
4.25.7	No condition shall occur that would cause the toy to fail the temperature requirements of 4.25.6	P
4.25.7.1	The toy shall comply with the temperature requirements of 4.25.10.8 during normal use charging and any discharging of the battery.	P
4.25.8	Battery-operated toys shall meet the requirements of 6.5 for instructions on safe battery usage. Toys which use non-replaceable batteries as the only source of power are not subject to 6.5.	P
4.25.9	Battery-powered Ride-on Toys-These requirements apply to circuits within wheeled ride-on toys, not intended for streets or roadways,using a battery power source that is capable of delivering at least 8 amps into any variable resistor load for a minimum of one minute when tested in 8.18.2.	N/A
4.25.9.1	The maximum measured temperature of the conductor insulation layer must not exceed the certified temperature rating of the material.	N/A
4.25.9.2	According to the test in section 18.4.1, there must be no risk of fire.	N/A
4.25.9.3	A battery-powered ride-on toy designed with a wiring system that has a user replaceable device (fuse type) for the primary circuit protection or a wiring system with user reset table primary circuit protection (manual reset fuse) shall not actuate (open or trip)when tested in accordance with the nuisance tripping test of 8.18.5.	N/A
4.25.9.4	Switches used in battery-powered ride-on toys.	N/A
	(1)Polymeric materials in switches used in battery-powered ride-on toys that are used to support current-carrying parts shall carry a minimum fame rating of UL-94 V-0 or have a glow wire ignition rating of 750°C	N/A
	(2)The switch body shall not result in a short-circuit condition when subjected to the switch endurance test and overload tests of 8.18.6.	N/A
	(3)The switch shall not fail in a mode that could cause the vehicle to run continuously (switch stuck in the “on” position)when subjected to the endurance test and the overload test in8.18.6.	N/A
4.25.9.5	User replaceable circuit protection devices in battery - powered ride-on toys.	N/A
	(1)User replaceable circuit protection devices provided by the manufacturer in battery-powered ride-on toys shall be listed, recognized or certified by a Nationally Recognized Test Laboratory(NRTL)(that is, a laboratory recognized in accordance with 29 CFR 1910)to an appropriate electrical safety standard.	N/A
	(2)All circuit protection devices used in battery-powered ride-on toys intended to be replaced by the user shall be replaceable only with the use of a tool or by a design which does not easily allow tampering such as a design requiring excessive force to open.	N/A
4.25.9.6	Batteries, as described in 4.25.9, and battery chargers	N/A
	(1)Battery connectors shall be constructed of material with a UL 94 V-0 flame rating or have a glow wire ignition rating of 750°C	N/A
	(2)The battery charging system shall not present a risk of fire due to a short-circuit condition applied to any point in the length of a charger/battery interconnecting cable when tested in accordance with 8.18.8	N/A

TO BE CONTINUED

TEST RESULT

Section	Description	Result
	(3)During charging, battery-charging voltages shall not exceed the recommended charging voltages when tested in accordance with 8.18.7.	N/A
	(4)Battery chargers shall be certified to the appropriate current national standard, for example UL, CSA, or equivalent standards body.	N/A
4.25.9.7	Wiring connected to the main/motor battery shall be short-circuit protected and shall not present the risk of fire when tested in accordance with 8.18.8	N/A
4.25.9.8	Strain relief shall be provided to prevent mechanical stress on wires entering a connector block during routine maintenance such as battery charging, and tested in accordance with 8.18.9.	N/A
4.25.9.9	Battery-powered ride-on toys shall comply with the requirements in 5.14.1 for safety labeling, 6.6 for additional instructional literature, and 7.2 for required producer's markings.	N/A
4.25.10	Toys that Contain Secondary Cells or Secondary Batteries	P
4.25.10.1	Cells used in lithium ion or lithium ion polymer batteries incorporated into or included with toys shall have an attestation from the battery manufacturer or other evidence that the cells comply with at least one of the following standards:	P
	(1)ANSI C18.2M Part 2 for Portable Rechargeable Cells and Batteries, or	N/A
	(2)UL 1642, Standard for Lithium Batteries, or	P
	(3)IEC 62133 Secondary Cells and Batteries Containing Alkaline or Other Non-acid Electrolytes-Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, For Use in Portable Applications.	N/A
4.25.10.2	Lithium ion or lithium ion polymer batteries shall be compliant with one of the following standards:	P
	(1)ANSI C18.2M Part 2 for Portable Rechargeable Cells and Batteries, or	N/A
	(2)UL 2054,Standard for Household and Commercial Batteries, or	P
	(3)IEC 62133 Secondary Cells and Batteries Containing Alkaline or Other Non-acid Electrolytes-Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them,For Use in Portable Applications or Equivalent Standards.	N/A
4.25.10.3	Batteries that contain lithium ion or lithium ion polymer cells shall be provided with an enclosure that provides protection against damage to the cells and their circuitry during normal use and foreseeable abuse of the toy as specified in 8.5-8.10.	P
4.25.10.4	During charging with the provided charging device,no cell shall exceed the cell or battery manufacturer's specified charging voltage, current, and temperature values when tested in accordance with 8.19.1,8.19.2. and 8.19.3.	N/A
	(1)For batteries charged outside of the toy, if the manufacturer provides documentation that the battery and charger have not been modified by the manufacturer, have been tested as a system and the chargers are compliant with one of the following standards, then the testing and measurements required by 8.19.1,8.19.2, 8.19.3, and 8.19.4 can be omitted:	N/A
	(a)ANSI/UL 2595,General Requirements for Battery Powered Appliances	N/A

TO BE CONTINUED

TEST RESULT

Section	Description	Result
	(b)1EC 60950-1,Information Technology Equipment Safety-Part 1:General Requirements	N/A
4.25.10.5	During charging or discharge with the provided charger and load, as well as during normal operation and stalled motor test per 8.17 if applicable, and when tested in accordance with 8.19.1,8.19.2,8.19.3, and 8.19.4,the maxi-mum charge or discharge current of any cell shall not exceed the cell manufacturer's specif cations. Lithium ion or lithium ion polymer cell(s) cutoff voltage shall not be less than the manufacturer's specif ed minimum in any operating mode.Momentary current spikes until safety devices actuate are to be disregarded.	N/A
4.25.10.6	Normal use charging and discharging of a secondary battery when tested in accordance with 8.19.1, 8.19.2, and8.19.3,shall not result in surface temperature rises on any battery surfaces or any other accessible surface of the toy exceeding:(1)25 'C if the surface is substantially metal,(2)30 'C if the surface is ceramic or glass, (3)35 'C if the surface is wood or plastic. If the battery is permanently installed in the toy, do not disassemble the toy to reach the battery.	P
4.25.10.7	Battery chargers or power adapters that plug into the electric mains power shall be listed by a Nationally Recognized Test Laboratory (NRTL) to an appropriate electric.cal safety standard, External connectors to chargers and batteries shall ensure that correct polarity is used during charging Compliance is checked by visual inspection.	N/A
4.25.10.8	Circuit wiring connected to lithium ion or lithium ion polymer and NIMH secondary batteries shall be short circuit protected and shall not present the risk of fire when tested in accordance with 8.19.5. During these tests, temperatures on any accessible surfaces of any secondary battery shall not exceed 60 'C if the surface is plastic or 50 'C if the surface is metal, glass or ceramic. In addition, inaccessible surfaces of lithium ion batteries shall not exceed 71C or the cell manufacturer's maximum temperature, whichever is less. Cells shall not cause explosion or fire as evidenced by signs of burning of the battery including burning or charring of the combustible materials specified in the test. If cells vent,electrolyte shall not become accessible. Secondary batteries which are removable shall not be able to be short circuited by placing terminals of opposite polarity against a fat conductive surface, unless no hazardous condition results when tested per8.19.5.1. For lithium ion or lithium ion polymer batteries, short circuit protection shall be incorporated into the battery.	P
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A

TO BE CONTINUED

TEST RESULT

Section	Description	Result
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chests	N/A
5	Labeling Requirements	
5.1	Federal Government Requirements	P
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirements	N/A
5.4	Aquatic Toys	N/A
5.5	Crib and Playpen Toys	N/A
5.6	Mobiles	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled by an Adult	N/A
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges or Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons	N/A
5.12	Art Materials	N/A
5.13	Electric Toys	N/A
5.14	Battery-Operated Toys	N/A
5.14.1	Battery-Powered Ride-On Toys	N/A
5.14.2	Button or Coin Cell Batteries	N/A
5.15	Promotional Materials	P
5.16	Magnets	N/A
6	Instructional Literature	
6.1	Definition and Description	N/A
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	N/A
6.6	Battery Powered Ride-On Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
6.9	The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery (ies)	N/A
7	Producer' s Markings	
7.1	Producer' s or Distributor' s Name and Address	P
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy Chests	N/A

Remark:

P - Pass, F - Fail, NA - Not Applicable, NC - Not Conduct as per client' s request

**The test item is subcontracted to other lab.

TO BE CONTINUED

TEST RESULT

Flammability of Toys

Test Request: As specified in ASTM F963-23, Section 4.2, testing procedure for materials other than textiles (excluding paper) used in toys is contained in Annex A5.

Sample	Limit	Result
A	0.1 inch/second	P

Remark:

P - Pass, F - Fail, NA - Not Applicable, NC - Not Conduct as per client's request

Flammability Test

Test Request: As per U.S. code of federal regulations title 16 CFR 1500.3(c)(6)(vi) for flammable solid, tested by the method described in 16 CFR 1500.44.

Sample	Limit	Result
A	0.1 inch/second	IBE

Remark:

IBE = Ignite But Self - Extinguished

TO BE CONTINUED

TEST RESULT

Physical and Mechanical Hazards

Test Request: The Mechanical Hazards Requirements of 16 CFR 1500, after Use and Abuse Tests.
Test Sample: A

Section	Description	Result
16 CFR 1501	Small Parts	N/A
16 CFR 1500.48	Sharp Points	N/A
16 CFR 1500.49	Sharp Edges	N/A
16 CFR 1510	Rattles	N/A
16 CFR 1511	Pacifier	N/A

Remark:

P - Pass, F - Fail, NA - Not Applicable, NC - Not Conduct as per client' s request

Tracking Label Assessment

Test Request: As per Consumer Product Safety Improvement Act (CPSIA) 2008 section 103 tracking labels for children products
Test Sample: A

Labeling Content	Observation Result	Location	Conclusion
Name of Manufacturer/ Import/ Private Labeler in the tracking label	Present	Packaging& Product	Pass
Location of production	Present	Packaging& Product	Pass
Date of production	Present	Packaging& Product	Pass
Cohort information (including the batch, run number, or other identifying characteristic)	Present	Packaging& Product	Pass

Remark:

The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: ASTM F963-23- Phthalates Content in Toys (including pacifiers, rattles, and teethers)
Material (Clause 4.3.8)

Test Method: CPSC-CH-C1001-09.4

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					2	3+4+ 5	6+7+ 8	9+10 +11
Diisononyl phthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					12+13	15
Diisononyl phthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND
Di-n-pentyl phthalate (DPP)	131-18-0	%	0.1	0.005	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	0.033
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND

Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

1 mg/kg = 1 ppm = 0.0001%

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Lead Content in Substrate

Test Request: Total lead in substrate as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101(15 U.S.C. § 1278a)

Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3
The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result			
				3	4	5	6
Total Lead(Pb)	mg/kg	100	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				7	8	9	10
Total Lead(Pb)	mg/kg	100	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				11	12	13	15
Total Lead(Pb)	mg/kg	100	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				19			
Total Lead(Pb)	mg/kg	100	10	27			

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Lead Content in Paint / Surface Coating

Test Request: Total lead in paint/ similar surface coatings as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101(15 U.S.C. § 1278a)

Test Method: CPSC-CH-E1003-09.1
The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result
				2
Total Lead (Pb)	mg/kg	90	10	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates as specified in CPSC 16 CFR part 1307.

Test Method: CPSC-CH-C1001-09.4

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					2	3+4+ 5	6+7+ 8	9+10 +11
Diisononyl phthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					12+13	15
Diisononyl phthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND
Di-n-pentyl phthalate (DPP)	131-18-0	%	0.1	0.005	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	0.033
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND

Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

1 mg/kg = 1 ppm = 0.0001%

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Phthalates Content as specified in US California Proposition 65

Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					2	3+4+ 5	6+7+ 8	9+10 +11
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Phthalic acid, bis-iso-decyl ester (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND
Phthalic acid, bis-hexyl ester (DnHP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					12+13	15
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	0.033
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND
Phthalic acid, bis-iso-decyl ester (DIDP)	26761-40-0	%	0.1	0.005	ND	ND
Phthalic acid, bis-hexyl ester (DnHP)	84-75-3	%	0.1	0.005	ND	ND

Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

The limit(s) was/were referred from various court cases.

Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

TO BE CONTINUED

TEST RESULT

Total Lead Content

Test Request: Total lead content as specified in US California Proposition 65

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996
Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result
				2
Lead (Pb)	mg/kg	90	10	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Lead Content

Test Request: Total lead content as specified in US California Proposition 65

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996
Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result			
				3	4	5	6
Lead (Pb)	mg/kg	100	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				7	8	9	10
Lead (Pb)	mg/kg	100	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				11	12	13	15
Lead (Pb)	mg/kg	100	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				19			
Lead (Pb)	mg/kg	100	10	27			

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

*The result was found to be more than the permissible limit.

TO BE CONTINUED

TEST RESULT

Total Lead Content

Test Request: Total lead content as specified in US 16 CFR 1303

Test Method: CPSC-CH-E1003-09.1

The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result
				2
Total Lead (Pb)	mg/kg	90	10	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Heavy Metals

1) ASTM F963-23- Heavy Elements – Total Lead in Paint and Similar Surface-Coating Material (Clause 4.3.5.1(1))

Test Method: ASTM International Standard ASTM F963-23, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result	
				2	
Total Lead in Paint	mg/kg	90	10	ND	

2) ASTM F963-23- Heavy Elements – Total Lead in Substrate Material (Clause 4.3.5.2(2) (a))

Test Method: ASTM International Standard ASTM F963-23, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result				
				3	4	5	6	7
Total Lead in Substrate	mg/kg	100	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				8	9	10	11	12
Total Lead in Substrate	mg/kg	100	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				13	15	16	17	18
Total Lead in Substrate	mg/kg	100	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result	
				19	
Total Lead in Substrate	mg/kg	100	10	27	

3) ASTM F963-23- Heavy Elements – Total Elements Content, Initial Screening for Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay(Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-23, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result				
				2	3	4	5	6
Total Antimony	mg/kg	60	5	ND	ND	ND	135*	144*
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	1359*	1429*
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Tested Item(s)	Unit	Limit	MDL	Result				
				7	8	9	10	11
Total Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				12	13	15	16	17
Total Antimony	mg/kg	60	5	21	ND	ND	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	810	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result	
				18	19
Total Antimony	mg/kg	60	5	ND	ND
Total Arsenic	mg/kg	25	5	ND	39*
Total Barium	mg/kg	1000	10	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND
Total Chromium	mg/kg	60	5	ND	101*
Total Lead	mg/kg	90	10	ND	27
Total Mercury	mg/kg	60	5	ND	ND
Total Selenium	mg/kg	500	10	ND	ND

4) ASTM F963-23- Heavy Elements – Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-23, Section 8.3.2 to 8.3.5 (excluding 8.3.5.5(3))

Tested Item(s)	Unit	Limit	MDL	Result		
				5	6	19
Soluble Antimony	mg/kg	60	5	ND	ND	ND
Soluble Arsenic	mg/kg	25	2.5	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND
Soluble Lead	mg/kg	90	5	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND

Remark:

TO BE CONTINUED

TEST RESULT

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL, NA = Not Applicable

The analytical results were adjusted by subtracting analytical correction factor.

*On the initial analysis for soluble heavy metals content, any tested component of greater than the set limit, the result is inconclusive for the requirement and therefore were retested with soluble heavy metals analysis of ASTM F963-23, Sections 8.3.2 to 8.3.5 as specified in Section 8.3.1.3. The result herein is for reference only (show data), please refer to soluble heavy metals content analysis for the corresponding conclusive results.

According to Section 8.3.1.3, if results of total eight elements are below soluble limits for each element as prescribed in the table, the material can be considered to conform to requirements of 4.3.5.1(2) or 4.3.5.2(2)(b), or both, without further testing.

TO BE CONTINUED

TEST RESULT

Total Lead Content in Paint and Other Similar Surface Coatings

Test Request: Total lead in paint/ similar surface coatings as specified in Illinois Lead Poisoning Prevention Act (LPPA).

Test Method: CPSC-CH-E1003-09.1
The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result
				2
Total Lead (Pb)	mg/kg	90	10	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Cadmium Content

Test Request: Total cadmium content as specified in US California Proposition 65

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996
Acid digestion/ microwave digestion method was used and total cadmium content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result			
				2	3+4+5	6+7+8	9+10+11
Cadmium (Cd)	mg/kg	100	5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				12+13+14	15	19
Cadmium (Cd)	mg/kg	100	5	ND	ND	ND

Remark:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

*The result was found to be more than the permissible limit.

END OF THE REPORT