TEST REPORT

LAB NO.	**:**	**(9124)024-0193 (REVISED)**
DATE	**:**	**JAN 30, 2024**
PAGE	**:**	**1 OF 11**

Applicant :

[redacted]

Date of Submission: 2024-01-24
Test Period: 2024-01-24 to 2024-01-30
Sample Mode: Sample Presentation
BV EE Ref. No. BV: /

Sample Description :	Sample(s) received is(are) stated to be: KIDS PLAY MAT		
Manufacturer Name:	[redacted]	Reference/Type:	377968; 380405; 380412
Country of Origin:	[redacted]	Country of Destination:	/
Brand Name/Trade Mark:	/	Supplier/Vendor:	/
Manufacture Address:	/	Age:	0+

SUMMARY OF TEST RESULTS

#	Test Item(s)	Reference Standard/Method	Result
1	The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys"	EN71: Part 1:2014+A1:2018, clauses 1-6 before and after wash.	**PASS**
2	The flammability requirements of the European Standard "Safety of Toys"	EN 71: Part 2: 2020 before and after wash.	**PASS**
3	The migration of certain elements in toy material requirements of the European Standard, "Safety of Toys"	EN 71 Part 3: 2019+A1:2021.	**PASS***

[redacted]

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

NOTE:

1. According to Toy Safety Directive 2009/48/EC, toys made available on the market must bear the CE marking. Manufacturers/importers shall indicate their name, registered trade name or registered trade mark and the address at which they can be contracted on the toy, packaging or document accompanying the toy and must ensure their toys bear a type, batch, serial or model number or other element allowing their identification.
2. The sample does not contain any cleaning instruction. However, according to the Toy Safety Directive 2009/48/EC, a textile toy intended for use by children under 36 months shall be washable, except if it contains a mechanism that may be damaged if soak washed, and washable means possibility to be soaking washed. To fulfill this requirement, the toy should provide hand washing or machine washing instruction.
3. The sample is tested for "ALL AGES " as the client's request.
4. No relevant packaging was provided with the submitted sample(s), consequently, evaluation of the labeling requirements of this European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, Clause 7, was not conducted.
5. As per client request, the tests were conducted on specified components only.

BVCPS [redacted] branch contact information for this report

Technical Questions:

Nick Qi [redacted]

Concerns About Billing and General Inquires:

Rita Zhang [redacted]

BUREAU VERITAS
CONSUMER PRODUCTS SERVICES [redacted]
[redacted] BRANCH

Nick Qi

NICK QI
MANAGER (TOYS DIVISION)

TEST RESULTS

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the EN71 :Part 1:2014+A1:2018,CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age determination guidelines prepared by Technical Committee CEN/TC 52 and Age Grade Determination Guidelines of the Consumer Product Safety Commission(CPSC)

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2

Symbol	Explanation
NM	The samples are NOT IN COMPLIANCE WITH the requirement of this Subclause
M	The samples are IN COMPLIANCE WITH the requirement of this Subclause
N/A	Not Applicable
NR	Not Requested
NE	Not Evaluated
NP	None Present
P	Present
R	Refer to Comment Section of this report

Symbol	Language Present	Symbol	Language Present	Symbol	Language Present
B	Belgian language	G	German language	PR	Portuguese language
D	Danish language	GR	Greek language	S	Spanish language
E	English language	H	Dutch language	SD	Swedish language
F	Finnish language	I	Italian language	SZ	Swiss language
FR	French language	N	Norwegian language		

MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1: 2018)

Subclause	Requirement	Result
4.1	Material cleanliness	M
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7 & 7.6	Edges	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	NA
4.9	Protruding parts	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	NA
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17.2	All projectiles	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.26	Certain projectiles toys without stored energy	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA
4.19 & 7.13 & 7.14	Percussion caps	NA

MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1: 2018)

Subclause	Requirement	Result
*4.20.2.1-4.20.2.8, 4.20.2.10, 4.20.2.12	Acoustics	NA
4.20.2.9, 4.20.2.11 & 7.14	Acoustics – percussion toys & cap-firing toys	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	
4.23	Magnet	NA
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27.1	Flying toys – General	NA
4.27.2 & 7.25.1	Rotors and propellers on flying toys	NA
4.27.3 & 7.25.2	Rotors and propellers on remote controlled flying toys	NA
	FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	
5.1	General	M SEE NOTE 2
5.1a	Small parts – as received	M
5.1b	Small parts, sharp points, sharp edges – after tests	M
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA
5.2	Fillings, coverings and seams	NA
5.3	Adhesion of plastic sheeting	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6 & 7.21	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9 & 7.11 & 7.23	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5 & 7.12	Liquid filled toys	NA
5.6	Electrically driven toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size	NA
5.9 & 7.17	Monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA

MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1: 2018)

Subclause	Requirement	Result
5.12	Hemispheric shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15 & 7.24	Sledges with cords for pulling	NA
6	Packaging	NA
	WARNINGS, INSTRUCTIONS FOR USE	
7.1	General	SEE NOTE 4
7.2	Toys not intended for children under 36 months	SEE NOTE 4
7.5	Functional toys	SEE NOTE 4

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section NR = Not Request

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.3	8.25.1	4.15.1.5	8.26.1	4.22	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32	5.4.5	8.40
4.5	8.5, 8.7, 8.11, 8.12	4.15.1.8	8.29	4.23	8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35	5.4.6	8.40
4.6	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14	4.15.2.4	8.26.2	4.24	8.37	5.4.7	8.20
4.7	8.11	4.15.3	8.21, 8.23.1	4.25	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1	5.4.8	8.39
4.8	8.12, 8.13	4.15.4	8.21, 8.23.1	4.26	8.38	5.5	8.15
4.9	8.4.2.3, 8.11, 8.12	4.15.5	8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27	4.27.1	8.43	5.6	8.29
4.10.1	8.18.2, 8.18.3	4.16	8.23.2	4.27.2	8.4.2.6	5.8	8.16
4.10.2	8.5, 8.6, 8.7, 8.11, 8.12	4.17.1	8.3, 8.4.2.1, 8.7, 8.8, 8.42	4.27.3	8.4.2.6	5.10	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32
4.11	8.2, 8.3, 8.4.2.1, 8.9, 8.17	4.17.2	8.3, 8.4.2.4,8.7, 8.8, 8.32.1, 8.43, 8.44	5.1	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12	5.11	8.33
4.13	8.19	4.17.3	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.3	8.4.2.1, 8.25	5.12	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9,
4.14.1	8.31.1, 8.31.2	4.17.4	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.4.1	8.40	5.13	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32
4.14.2	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12	4.18	8.2, 8.3, 8.4.2.1	5.4.2	8.38, 8.40, 8.41	5.14	8.38
4.15.1.3	8.11, 8.12, 8.21, 8.22	4.20	8.28	5.4.3	8.38, 8.40, 8.41	6	8.3, 8.4.2.1, 8.25.1, 8.32.1
4.15.1.4	8.23.1	4.21	8.30	5.4.4	8.36, 8.38		

FLAMMABILITY (EN 71 PART 2: 2020)

Subclause	Requirement	Result
4.1	Cellulose nitrate	NP
4.1	Highly flammable solids	NP
4.1	Surface flash on a piled surface	NA
*4.1	Flammable gases	NA
*4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by a child	NA
4.4	warning on product and packaging (10 – 30 mm/s)	NA
4.5	Soft-filled toys	NA

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section NR = Not Request
P = Present NP = Not Present

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-

Tested component(s) breakdown list

Sample Identity	Color	Location	Style
A.	ORANGE PLASTIC	/	/

Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment

Method: : European Standard EN 71 Part 3: 2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Category I**	**Dry, brittle, powder-like or pliable toy material**
	Category II	**Liquid or sticky toy material**
	Category III	**Scraped-off toy material**

Parameter	Unit	Detection Limit	Result						Limit
			A.	-	-	-	-	-	
Category III	-	-	-	-	-	-	-	-	-
Boron(B)	mg/kg	1500	ND	-	-	-	-	-	15000
Aluminum(Al)	mg/kg	2813	ND	-	-	-	-	-	28130
Chromium III (Cr III)	mg/kg	46	ND	-	-	-	-	-	460
Chromium VI (Cr VI)	mg/kg	0.005	ND	-	-	-	-	-	0.053
Manganese(Mn)	mg/kg	1500	ND	-	-	-	-	-	15000
Cobalt(Co)	mg/kg	13	ND	-	-	-	-	-	130
Nickel(Ni)	mg/kg	93	ND	-	-	-	-	-	930
Copper(Cu)	mg/kg	770	ND	-	-	-	-	-	7700
Zinc(Zn)	mg/kg	4600	ND	-	-	-	-	-	46000
Arsenic(As)	mg/kg	4.7	ND	-	-	-	-	-	47
Selenium(Se)	mg/kg	46	ND	-	-	-	-	-	460
Strontium(Sr)	mg/kg	5600	ND	-	-	-	-	-	56000
Cadmium(Cd)	mg/kg	1.7	ND	-	-	-	-	-	17
Tin(Sn)	mg/kg	18000	ND	-	-	-	-	-	180000
Organic tin compounds(OT)	mg/kg	1.2	ND	-	-	-	-	-	12
Antimony(Sb)	mg/kg	56	ND	-	-	-	-	-	560
Barium(Ba)	mg/kg	1875	ND	-	-	-	-	-	18750
Mercury(Hg)	mg/kg	9.4	ND	-	-	-	-	-	94
Lead(Pb)	mg/kg	2.3	ND	-	-	-	-	-	23
Conclusion	-	-	PASS	-	-	-	-	-	-

Note / Key :

ND = Not detected ">" = Greater than Req. = Requirement
NR = Not requested g = gram(s)
mg/kg = milligram(s) per kilogram = ppm = part(s) per million

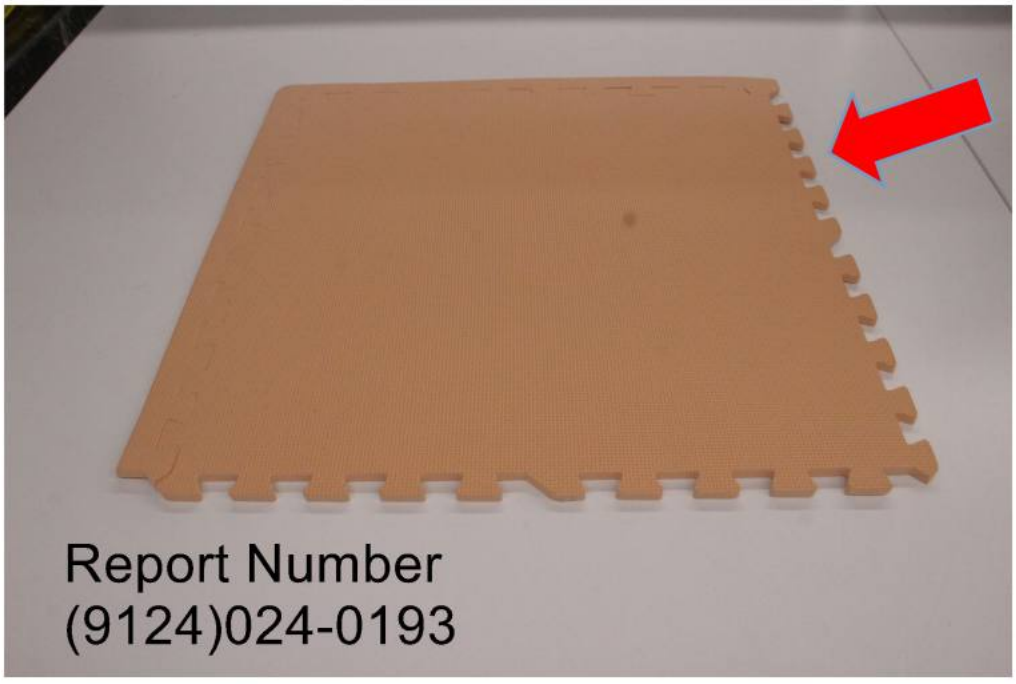
Remark:

#If combined Cr content exceeds 0.02mg/kg in I mat., 0.005 mg/kg in II mat., or 0.053mg/kg in III mat., confirmation Cr(VI) by IC-ICP-MS or IC-UV/VIS. Cr(III)=Combined Cr – Cr(VI)

*Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.

□The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.

EXHIBIT




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