

**TEST REPORT**

Applicant: PAGINA GROUP AB  
GAMLA BROGATAN 9  
111 20 STOCKHOLM  
SWEDEN

Number: HKGH0272443401

Date: May 31, 2021

Attn: JESSICA ENGBERG

Submitted sample said to be :  
Item Name : **Classic-Backgammon**  
**Classic-Chess**  
**Classic-Chinese Checkers**  
**Classic-Domino**  
**Classic-Pick up sticks**  
**Classic-Yatzy**  
Item No. : **7350108170048**  
**7350108170055**  
**7350108171861**  
**7350108170062**  
**7350108170086**  
**7350108170079**  
Quantity : 18 pieces  
Labelled Age Group : "AGE 4 YEARS"(For Domino and Pick up sticks)  
"AGE 6 YEARS" (For Backgammon, Chess, Chinese Checkers and Yatzy)  
Packaging Provided : Yes(artwork)  
Buyer : Annette Gardo  
Country of Origin : China  
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For and on behalf of :  
Intertek Testing Services HK Ltd.



Cindy I.K. Chan  
Vice President



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**Conclusion:**

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) EN 71-1:2014 + A1:2018 - Mechanical and physical properties	Pass
(2) EN 71-2:2011 + A1:2014 - Flammability Test	Pass
(3) EN 71-3:2019 - Migration of certain elements	Pass
(4) REACH Regulation (EC) No. 1907/2006, Annex XVII item 20 & amendment (EU) No. 276/2010 - Organotin content requirement	Pass
(5) 94/62/EC and its amendment (packaging waste) - Toxic elements test	Pass
(6) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 23 & amendment No. 2016/217 - Cadmium content requirement	Pass
(7) EN 71-2:2020 - Flammability Test	Pass

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Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc>.  
If decision rule already inlined in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.

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(1) Mechanical and Physical Test

Test Standard : European Standard on Safety of toys EN 71-1:2014 + A1:2018

Age group for testing : 1) For ages over 4 years (For Domino and Pick up sticks)  
 2) For ages over 6 years (For Backgammon, Chess, Chinese Checkers and Yatzy)

Clause	Requirement	Assessment
4	General requirements	
4.1	Material cleanliness	P
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	Edges	P
4.8	Points and Metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put into mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non -electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA

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Clause	Requirement	Assessment
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	Sledges with cords for pulling (7.24)	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile Toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic / electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Abbreviation :      P = Pass                      NA = Not Applicable

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Below are additional information according to the Toy Safety Directive 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements and not accredited:

Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking. After checking, it was found that

	Toy	Packaging
Manufacturer's name	Absent	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Present
Importer's address	Absent	Present
Product identification code	Absent	Absent
CE-marking	Absent	Present

Date sample received : May 13, 2021 and May 24, 2021  
Test Period : May 13, 2021 to May 25, 2021

(2) Flammability Test

Test Standard : European Standard on Safety of Toys EN 71-2:2011 + A1:2014

Clause	Requirement	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : May 13, 2021  
Test Period : May 13, 2021 to May 20, 2021

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(3) 19 Toxic Element Migration Test

Test Method : EN 71-3:2019. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (I): Dry brittle powder-like or pliable toy material:

	Result (mg/kg)	Limit (mg/kg)
	(18)	
Soluble Aluminium (Al)	<100	2250
Soluble Antimony (Sb)	<10	45
Soluble Arsenic (As)	<1.0	3.8
Soluble Barium (Ba)	<10	1500
Soluble Boron (B)	<50	1200
Soluble Cadmium (Cd)	<0.5	1.3
Soluble Chromium (III) (Cr III)	<5.0	37.5
Soluble Chromium (VI) (Cr VI)	<0.010	0.02
Soluble Cobalt (Co)	<1.0	10.5
Soluble Copper (Cu)	<10	622.5
Soluble Lead (Pb)	<0.5	2.0
Soluble Manganese (Mn)	<10	1200
Soluble Mercury (Hg)	<1.0	7.5
Soluble Nickel (Ni)	<10	75
Soluble Selenium (Se)	<5.0	37.5
Soluble Strontium (Sr)	<100	4500
Soluble Tin (Sn)	<10	15000
Soluble Organic tin ++	<0.3	0.9
Soluble Zinc (Zn)	<100	3750

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Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	260	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(4)	(5)	(6)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(7)	(8)	(9)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	69	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(10)	(11)	(12)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(13)	(14)	(15)	
Soluble Aluminium (Al)	<300	850	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(16)	(17)	(19)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	65	12	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(20)	(21)	(22)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(23)	(24)	(25)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(26)	(27)	(28)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(29)	(30)	(31)	
Soluble Aluminium (Al)	<300	<300	490	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	12	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(32)	(33)	(34)	
Soluble Aluminium (Al)	520	710	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(35)	(36)	(37)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	30	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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**TEST REPORT**

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	Result (mg/kg)		Limit (mg/kg)
	(38)	(39)	
Soluble Aluminium (Al)	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	560
Soluble Arsenic (As)	<10	<10	47
Soluble Barium (Ba)	11	14	18750
Soluble Boron (B)	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	130
Soluble Copper (Cu)	<10	<10	7700
Soluble Lead (Pb)	<10	<10	23
Soluble Manganese (Mn)	40	43	15000
Soluble Mercury (Hg)	<10	<10	94
Soluble Nickel (Ni)	<10	<10	930
Soluble Selenium (Se)	<10	<10	460
Soluble Strontium (Sr)	<100	<100	56000
Soluble Tin (Sn)	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI).

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## TEST REPORT

Number : HKGH0272443401

### Tested Components:

- (1) White coating on plastic (dice of Yatzy, Black Gammon).
- (2) Shiny black coating on wood (casing of pencil of Yatzy).
- (3) Pale grey coating on wood (sticks of Pick Up Sticks).
- (4) Black coating on wood (sticks of Pick Up Sticks).
- (5) Red coating on wood (sticks of Pick Up Sticks).
- (6) Blue coating on wood (sticks of Pick Up Sticks).
- (7) Brown coating on wood (sticks of Pick Up Sticks).
- (8) Coatings (dark blue, light beige) on wood (Domino of Domino).
- (9) Coatings on composite wood (board of Chinese Checkers).
- (10) Dim pink coating on wood (checkers of Chinese Checkers).
- (11) Dim flesh color coating on wood (checkers of Chinese Checkers).
- (12) Dim brown coating on wood (checkers of Chinese Checkers).
- (13) Dim grey coating on wood (checkers of Chinese Checkers).
- (14) Dim silver color coating on wood (checkers of Chinese Checkers).
- (15) Dim black coating on wood (checkers of Chinese Checkers).
- (16) Bright deep green coating on wood (Chess of Chess).
- (17) Bright deep ivory coating on wood (Chess of Chess).
- (18) Black graphite (writing part of pencil of Yatzy).
- (19) Black plastic (dice of Yatzy, Black Gammon).
- (20) Bright black plastic (chess of Black Gammon).
- (21) Bright white plastic (chess of Black Gammon).
- (22) Transparent plastic with backing (body of Black Gammon, Chess).
- (23) White paper sheet with green printing and plastic film (base of board of Chess).
- (24) Green ribbon (ribbon on box of Yatzy).
- (25) Black woven backed with paper sheet (connector of box of Black Gammon).
- (26) Ivory fabric (bag of Chinese Checkers, Chess).
- (27) White string (bag of Chinese Checkers, Chess).
- (28) Brown felt with backing (base of Chess of Chess).
- (29) White paper sheet with black printing (instruction of all styles).
- (30) Green paper sheet with black printing (marking sheet of Yatzy).
- (31) Blue paper sheet with Pale yellow coating (box, tray of Domino).
- (32) Green paper sheet with grass green coating (box, tray of Yatzy).
- (33) Dull pale yellow paper sheet with red coating (box, tray of Pick Up Sticks).
- (34) White paper sheet with coatings (box, tray of Back Gammon, Chinese Checkers, Chess).
- (35) Black wood excluding shiny black coating (casing of pencil of Yatzy).
- (36) Light brown wood excluding coatings (sticks of Pick Up Sticks).
- (37) Wood excluding (dark blue, light beige) coatings (Domino of Domino).
- (38) Brown wood excluding coatings (checkers of Chinese Checkers; chess of Chess).
- (39) Deep brown composite wood excluding coatings (board of Chinese Checkers).

Date sample received : May 13, 2021

Test Period : May 13, 2021 to May 22, 2021

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**TEST REPORT**

Number : HKGH0272443401

(4) Organotin Content

Test Method : By solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS) analysis.

Compound	Result (% w/w)			Limit (% w/w)
	(1)	(2)	(3/4/5)	
Tri-substituted Organotin <sup>^</sup>	<0.005	<0.005	<0.005	0.1
Dibutyltin (DBT)	<0.005	<0.005	<0.005	0.1
Diocetyl tin (DOT)	<0.005	<0.005	<0.005	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(6/7)	(8/9/10)	(11/12/13)	
Tri-substituted Organotin <sup>^</sup>	<0.005	<0.005	<0.005	0.1
Dibutyltin (DBT)	<0.005	<0.005	<0.005	0.1
Diocetyl tin (DOT)	<0.005	<0.005	<0.005	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(14/15/16)	(17/18)	(19/20)	
Tri-substituted Organotin <sup>^</sup>	<0.005	<0.005	<0.005	0.1
Dibutyltin (DBT)	<0.005	<0.005	<0.005	0.1
Diocetyl tin (DOT)	<0.005	<0.005	<0.005	0.1

Compound	Result (% w/w)	Limit (% w/w)
	(21)	
Tri-substituted Organotin <sup>^</sup>	<0.005	0.1
Dibutyltin (DBT)	<0.005	0.1
Diocetyl tin (DOT)	<0.005	0.1

The above limit was quoted according to Annex XVII Item 20 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) No. 276/2010 (formerly known as Decision 2009/425/EC) for organotin content.

<sup>^</sup> = The reported value was calculated by summation of the values of Tri-butyltin, Tri-phenyltin, Tri-methyltin, Tri-octyltin, Tri-cyclohexyltin

Detection limit = 0.005% (w/w) of tin

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## TEST REPORT

Number : HKGH0272443401

### Tested Components:

- (1) Coatings on sample (box of Yatzy; box of Domino; box of Picks Up Sticks; box, tray of Chess; box, tray of Chinese Checkers; box, tray of Back Gammon; casing of pencil of Yatzy; sticks of Pick Up Sticks; Domino of Domino; board of Chinese Checkers; checkers of Chinese Checkers; dice of Yatzy, Black Gammon).
- (2) Black graphite (writing part of pencil of Yatzy).
- (3) Black plastic (dice of Yatzy, Black Gammon).
- (4) Bright black plastic (chess of Black Gammon).
- (5) Bright white plastic (chess of Black Gammon).
- (6) Transparent plastic with backing (body of Black Gammon, Chess).
- (7) White paper sheet with green printing and plastic film (base of board of Chess).
- (8) Black woven backed with paper sheet (connector of box of Black Gammon).
- (9) Ivory fabric (bag of Chinese Checkers, Chess)/ green ribbon (ribbon on box of Yatzy)/ brown felt with backing (base of Chess of Chess).
- (10) White string (bag of Chinese Checkers, Chess).
- (11) White paper sheet with black printing (instruction of all styles).
- (12) Green paper sheet with black printing (marking sheet of Yatzy).
- (13) Blue paper sheet (box, tray of Domino).
- (14) Green paper sheet (box, tray of Yatzy).
- (15) Dull pale yellow paper sheet (box, tray of Pick Up Sticks).
- (16) White paper sheet excluding coatings (box, tray of Back Gammon, Chinese Checkers, Chess).
- (17) Black wood excluding shiny black coating (casing of pencil of Yatzy).
- (18) Light brown wood excluding coatings (sticks of Pick Up Sticks).
- (19) Wood excluding (dark blue, light beige) coatings (Domino of Domino).
- (20) Brown wood excluding coatings (checkers of Chinese Checkers; chess of Chess).
- (21) Deep brown composite wood excluding coatings (board of Chinese Checkers).

Date sample received : May 13, 2021

Test Period : May 13, 2021 to May 22, 2021

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**TEST REPORT**

Number : HKGH0272443401

(5) Toxic Elements Analysis

Test Method : 94/62/EC and its amendment on packaging and packaging waste, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

	Result (ppm)			Limit (ppm)
	(1)	(2)	(3/4)	
Total Lead (Pb)	<5	<5	<5	--
Total Cadmium (Cd)	<5	<5	<5	--
Total Mercury (Hg)	<5	<5	<5	--
Chromium VI (Cr (VI))	<5	<5	<5	--
Sum of Lead, Cadmium, Mercury and Chromium Cr (VI)	<20	<20	<20	100

ppm = parts per million = mg/kg

Tested Components:

- (1) White paper card with (gold color, black) printings (wrapping card of all styles) (packaging).
- (2) Grey paper card (marking sheet backing of Yatzy) (packaging).
- (3) Translucent plastic sheet (covering of Black Gammon) (packaging).
- (4) Transparent plastic sheet (wrapping sheet of all styles) (packaging).

Date sample received : May 13, 2021

Test Period : May 13, 2021 to May 22, 2021

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Number : HKGH0272443401

(6) Cadmium (Cd) Content

Test Method : Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.1
(2/3/4)	ND	0.1
(5/6/7)	ND	0.1
(8)	ND	0.1
(9)	ND	0.1
(10/11)	ND	0.1
(12/13/14)	ND	0.1
(15/16/17)	ND	0.1
(18/19)	ND	0.1
(20/21)	ND	0.1
(22/23)	ND	0.1
(24/25/26)	ND	0.01
(27/28)	ND	0.01

ND : Not detected (< 0.0005%)

The above limit was quoted according to REACH Regulation (EC) No. 1907/2006, Annex XVII Item 23 & amendment No. 2016/217.

Tested Components:

- (1) White coating on plastic (dice of Yatzy, Black Gammon).
- (2) Shiny black coating on wood (casing of pencil of Yatzy).
- (3) Pale grey coating on wood (sticks of Pick Up Sticks).
- (4) Black coating on wood (sticks of Pick Up Sticks).
- (5) Red coating on wood (sticks of Pick Up Sticks).
- (6) Blue coating on wood (sticks of Pick Up Sticks).
- (7) Brown coating on wood (sticks of Pick Up Sticks).
- (8) Coatings (dark blue, light beige) on wood (Domino of Domino).
- (9) Coatings on composite wood (board of Chinese Checkers).
- (10) Dim pink coating on wood (checkers of Chinese Checkers).
- (11) Bright deep ivory coating on wood (Chess of Chess).
- (12) Dim flesh color coating on wood (checkers of Chinese Checkers).
- (13) Dim brown coating on wood (checkers of Chinese Checkers).
- (14) Dim grey coating on wood (checkers of Chinese Checkers).
- (15) Dim silver color coating on wood (checkers of Chinese Checkers).
- (16) Dim black coating on wood (checkers of Chinese Checkers).

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### Tested Components:

- (17) Bright deep green coating on wood (Chess of Chess).
- (18) Grass green coating on paper sheet (box of Yatzy).
- (19) Coatings (dark grey, beige) on paper sheet (box, tray of Chess).
- (20) Pale yellow coating on paper sheet (box of Domino).
- (21) Coatings (ivory, dim pink) on paper sheet (box, tray of Chinese Checkers).
- (22) Red coating on paper sheet (box of Picks Up Sticks).
- (23) Coatings (dull grey, grayish blue) on paper sheet (box, tray of Back Gammon).
- (24) Black plastic (dice of Yatzy, Black Gammon).
- (25) Bright black plastic (chess of Black Gammon).
- (26) Bright white plastic (chess of Black Gammon).
- (27) Transparent plastic with backing (body of Black Gammon, Chess).
- (28) White paper sheet with green printing and plastic film (base of board of Chess).

Date sample received : May 13, 2021

Test Period : May 13, 2021 to May 22, 2021

### (7) Flammability Test

Test Standard : European Standard on Safety of Toys EN 71-2:2020

Clause	Requirement	Assessment
4.1	General requirements	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : May 13, 2021

Test Period : May 13, 2021 to May 20, 2021



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End of report

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