

TEST REPORT

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

Attn: JESSICA ENGBERG

Number: HKGH02720159 S1

Date: May 14, 2021

This is to supersede Report No. HKGH02720159 dated May 14, 2021 due to information update

Submitted sample said to be
Item Name

:
: **NEW PLAY – Backgammon**
NEW PLAY – Chess
NEW PLAY – Domino
NEW PLAY – Pick up sticks
NEW PLAY – Yatzy
NEW PLAY – Double Playing Cards

Item No.

: **7350108172356**
7350108172363
7350108172370
7350108172387
7350108172394
7350108171692

Quantity

: 12 sets

Labelled Age Group

: Not specified

Packaging Provided

: Yes

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 71-2:2020 - Flammability Test	Pass
(3) EN 71-2:2011 + A1:2014 - Flammability Test	Pass
(4) EN 71-3:2019 - Migration of certain elements	Pass
(5) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52, amendment no. 552/2009 & 2018/2005 - Phthalates content	Pass
(6) REACH Regulation (EC) No. 1907/2006, Annex XVII item 20 & amendment (EU) No. 276/2010 - Organotin content requirement	Pass
(7) 94/62/EC and its amendment (packaging waste) - Toxic elements test	Pass
(8) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 23 & amendment No. 2016/217 - Cadmium content requirement	Pass

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 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 : For Ages Over 3 Years

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
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



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Clause	Requirement	Assessment
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 teething	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	Present
CE-marking	Absent	Present

Date sample received : May 04, 2021
Test Period : May 04, 2021 to May 10, 2021

(2) 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 04, 2021
Test Period : May 04, 2021 to May 14, 2021



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(3) 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 04, 2021

Test Period : May 04, 2021 to May 10, 2021



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(4) 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)
	(12)	
Soluble Aluminium (Al)	230	5625
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)	(4)	
Soluble Aluminium (Al)	<300	<300	<300	70000
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)
	(5)	(6)	(7)	
Soluble Aluminium (Al)	<300	<300	<300	70000
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)
	(8)	(9)	(10)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	360	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	160	46000



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	Result (mg/kg)			Limit (mg/kg)
	(11)	(13)	(14)	
Soluble Aluminium (Al)	<300	<300	<300	70000
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)
	(15)	(16)	(17)	
Soluble Aluminium (Al)	<300	<300	<300	70000
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)
	(18)	(19)	(20)	
Soluble Aluminium (Al)	<300	<300	<300	70000
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)
	(21)	(22)	(23)	
Soluble Aluminium (Al)	<300	<300	<300	70000
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	12	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	33	<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)
	(24)	(25)	(26)	
Soluble Aluminium (Al)	660	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	27	<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)	47	<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)
	(27)	(28)	(29)	
Soluble Aluminium (Al)	<300	<300	<300	70000
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)	56	17	<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

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) .

The new aluminium migration limit [2250mg/kg for Category (I), 560mg/kg for category (II) and 28130mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.

@ : Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.



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Tested Components:

- (1) Beige coating on wood (chess #Chess).
- (2) Blue coating on wood (chess #Chess).
- (3) @ White coating on plastic (dice #Backgammon, #Yatzy).
- (4) Coatings (light blue, white) on wood (dominoes #Domino).
- (5) Red coating on wood (sticks #Pick up sticks).
- (6) White coating on wood (sticks #Pick up sticks).
- (7) Black coating on wood (sticks #Pick up sticks).
- (8) Pink coating on wood (sticks #Pick up sticks).
- (9) Brown coating on wood (sticks #Pick up sticks).
- (10) Blue coating on wood (pencil #Yatzy).
- (11) Paper card with coatings (card #Playing cards).
- (12) Black graphite (pencil #Yatzy).
- (13) Paper sheet with plastic film (gameboard, box #Chess, #Backgammon, box #Domino, #Pick up sticks, #Yatzy, #Playing cards).
- (14) Ivory paper card with plastic film (tray #Chess, #Backgammon, #Domino, #Pick up sticks, #Yatzy, #Playing cards).
- (15) Black plastic (dice #Backgammon).
- (16) Transparent/translucent plastic (zip bag #Backgammon).
- (17) White plastic (checkers #Backgammon).
- (18) Blue plastic (checkers #Backgammon).
- (19) Sky blue plastic (dice #Yatzy).
- (20) Beige woven with white thread (body of chess bag #Chess, #Backgammon).
- (21) Beige string (cord of chess bag #Chess, #Backgammon).
- (22) Dark brown fabric (base of chess #Chess).
- (23) Beige paper sheet with black printing (booklet #Chess, #Backgammon, #Domino, #Pick up sticks, #Yatzy).
- (24) Grey paper card (box #Chess, #Backgammon, #Domino, #Playing cards).
- (25) White paper card (box #Pick up sticks, #Yatzy).
- (26) Ivory paper sheet with black printing (notepad #Yatzy).
- (27) Pale brown wood excluding coatings (chess #Chess, dominoes #Domino).
- (28) Light brown wood excluding coatings (sticks #Pick up sticks).
- (29) Brown wood (pencil #Yatzy).

Date sample received : May 04, 2021

Test Period : May 04, 2021 to May 13, 2021



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(5) Phthalate Content Test

Test Method : ISO 8124-6 : 2018 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Seven Phthalates content:

Compound	Result (% w/w)			Limit (% w/w)
	(1)	(2/3/4)	(5/6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	--
Sum of DINP, DnOP & DIDP	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)		Limit (% w/w)
	(7/8)		
Dibutyl phthalate (DBP)	<0.01		--
Diethyl hexyl phthalate (DEHP)	<0.01		--
Benzyl butyl phthalate (BBP)	<0.01		--
Diisobutyl phthalate (DIBP)	<0.01		--
Sum of DBP, DEHP, BBP & DIBP	<0.01		0.1
Diisononyl phthalate (DINP)	<0.01		--
Di-n-octyl phthalate (DnOP)	<0.01		--
Diisodecyl phthalate (DIDP)	<0.01		--
Sum of DINP, DnOP & DIDP	<0.01		0.1



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The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 taking into account the (EU) regulation 2018/2005 modifying entry 51 for which the DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination with the first three phthalates which already exist in the entry 51, in a concentration equal to or greater than 0,1 % by weight of the plasticised material.

Tested Components:

- (1) Coatings on sample (chess #Chess, dice #Backgammon, dice, pencil #Yatzy, dominoes #Domino, sticks #Pick up sticks, card #Playing cards).
- (2) Paper sheet with plastic film (gameboard, box #Chess, #Backgammon, box #Domino, #Pick up sticks, #Yatzy, #Playing cards).
- (3) Ivory paper card with plastic film (tray #Chess, #Backgammon, #Domino, #Pick up sticks, #Yatzy, #Playing cards).
- (4) Black plastic (dice #Backgammon).
- (5) Transparent/translucent plastic (zip bag #Backgammon).
- (6) White plastic (checkers #Backgammon).
- (7) Blue plastic (checkers #Backgammon).
- (8) Sky blue plastic (dice #Yatzy).

Date sample received : May 04, 2021

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(6) 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 [^]	<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)	
Tri-substituted Organotin [^]	<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)
	(13/14/15)	(16/17)	(18/19/20)	
Tri-substituted Organotin [^]	<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



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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.

^ = 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

Tested Components:

- (1) Coatings on sample (chess #Chess, dice #Backgammon, dice, pencil #Yatzy, dominoes #Domino, sticks #Pick up sticks, card #Playing cards).
- (2) Paper card excluding coatings (card #Playing cards).
- (3) Grey paper card (box #Chess, #Backgammon, #Domino, #Playing cards).
- (4) White paper card (box #Pick up sticks, #Yatzy).
- (5) Black graphite (pencil #Yatzy).
- (6) Paper sheet with plastic film (gameboard, box #Chess, #Backgammon, box #Domino, #Pick up sticks, #Yatzy, #Playing cards).
- (7) Ivory paper card with plastic film (tray #Chess, #Backgammon, #Domino, #Pick up sticks, #Yatzy, #Playing cards).
- (8) Black plastic (dice #Backgammon).
- (9) Transparent/translucent plastic (zip bag #Backgammon).
- (10) White plastic (checkers #Backgammon).
- (11) Blue plastic (checkers #Backgammon).
- (12) Sky blue plastic (dice #Yatzy).
- (13) Beige woven with white thread (body of chess bag #Chess, #Backgammon).
- (14) Beige string (cord of chess bag #Chess, #Backgammon).
- (15) Dark brown fabric (base of chess #Chess).
- (16) Beige paper sheet with black printing (booklet #Chess, #Backgammon, #Domino, #Pick up sticks, #Yatzy).
- (17) Ivory paper sheet with black printing (notepad #Yatzy).
- (18) Pale brown wood excluding coatings (chess #Chess, dominoes #Domino).
- (19) Light brown wood excluding coatings (sticks #Pick up sticks).
- (20) Brown wood (pencil #Yatzy).

Date sample received : May 04, 2021

Test Period : May 04, 2021 to May 12, 2021



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(7) 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	--
Total Cadmium (Cd)	<5	<5	--
Total Mercury (Hg)	<5	<5	--
Chromium VI (Cr (VI))	<5	<5	--
Sum of Lead, Cadmium, Mercury and Chromium Cr (VI)	<20	<20	100

ppm = parts per million = mg/kg

Tested Components:

- (1) Transparent plastic (box wrapper #Chess, #Backgammon, #Domino, #Pick up sticks, #Yatzy, #Playing cards) (packaging).
- (2) Shiny transparent plastic backed with adhesive (polybag of pencil #Yatzy) (packaging).
- (3) Bright transparent plastic (card wrapper #Playing cards) (packaging).
- (4) Grey paper card (base of notepad #Yatzy) (packaging).

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(8) 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
(1/2/3)	ND	0.1
(4/5)	ND	0.1
(6/7/8)	ND	0.1
(9)	ND	0.1
(10)	ND	0.1
(11)	ND	0.1
(12/13)	ND	0.01
(14/15/16)	ND	0.01
(17/18)	ND	0.01



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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) Beige coating on wood (chess #Chess).
- (2) Blue coating on wood (chess #Chess).
- (3) White coating on plastic (dice #Backgammon, #Yatzy).
- (4) Coatings (light blue, white) on wood (dominoes #Domino).
- (5) Red coating on wood (sticks #Pick up sticks).
- (6) White coating on wood (sticks #Pick up sticks).
- (7) Black coating on wood (sticks #Pick up sticks).
- (8) Pink coating on wood (sticks #Pick up sticks).
- (9) Brown coating on wood (sticks #Pick up sticks).
- (10) Blue coating on wood (pencil #Yatzy).
- (11) Coatings on paper card (card #Playing cards).
- (12) Paper sheet with plastic film (gameboard, box #Chess, #Backgammon, box #Domino, #Pick up sticks, #Yatzy, #Playing cards).
- (13) Ivory paper card with plastic film (tray #Chess, #Backgammon, #Domino, #Pick up sticks, #Yatzy, #Playing cards).
- (14) Black plastic (dice #Backgammon).
- (15) Transparent/translucent plastic (zip bag #Backgammon).
- (16) White plastic (checkers #Backgammon).
- (17) Blue plastic (checkers #Backgammon).
- (18) Sky blue plastic (dice #Yatzy).

Date sample received : May 04, 2021

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End of report

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The observations and test results in this report are relevant to the sample(s) tested and submitted by client. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. This report does not discharge or release you from your legal obligations and duties to any other person. Only the Client is authorized to permit copying or distribution of this report and the report shall not be reproduced except in full. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



To: PAGINA GROUP AB
Attention: JESSICA ENGBERG

Ref: FC-2021-2865
Date: May 17, 2021

Re : Report Revision Notification

Intertek Testing Services Report Number HKGH02720159 Dated May 14, 2021.

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services report, HKGH02720159 S1.

Thank you for your attention.

For and on behalf of :
Intertek Testing Services HK Ltd.



Cindy I.K. Chan
Vice President

