

TEST REPORT

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The results relate only to the item tested.

Number: BKKH19015771

Applicant: DILEMMA GAME LTD.
HA' OGEN 4/122 HERZLIYA
PITU' AH CITY, ISRAEL

Issued Date: Dec 02, 2019

Sample Submitted:

Quantity of sample: One (1) set
Sample description: Wooden toy
Date sample received: November 19, 2019
Date information received: December 02, 2019

Client Information:

Item Name: Traffic Light
Sample Description: Wooden puzzles with premium thai Monkey Pod and rubber wood
Item No.: BG20073
Label Age grading: 5+
Country of Origin: Thailand



Test conducted:

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

For and on behalf of :
Intertek Testing Services (Thailand) Ltd.,
Hardlines Laboratory



Ladtaka Wongwibooporn
Laboratory Manager
Hardlines Department

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Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	EN71-1 : 2014+A1:2018 - Mechanical and physical properties excluding labelling requirement of clause 7	Pass
	EN71-2 : 2011 + A1:2014 - Flammability test	Pass
	EN71-3 : 2019 - Migration of certain elements	Pass



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Test conducted:

1 Mechanical and Physical Test[▲]

Test standard: European Standard on Safety of toys EN71-1 : 2014 + A1 : 2018

Applicant's specified testing age : For ages over 5 years

Clause	Testing items	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	NA
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 in the 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	Projectile toys	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 children under 36 months	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA

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Clause	Testing items	Assessment
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	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, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys otherwise intended to be 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

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Test conducted:

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:

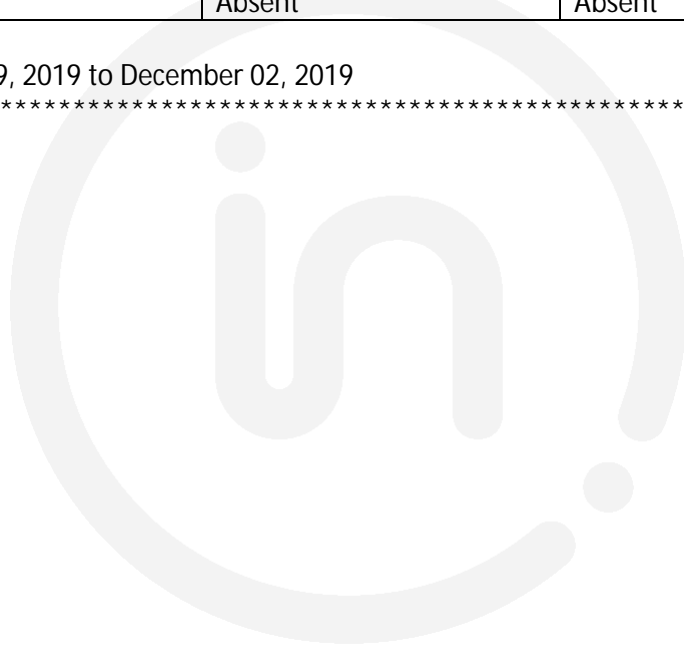
Marking

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 packaging 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	Absent
Importer's address	Absent	Absent
Product identification code	Absent	Present
CE-marking	Absent	Absent

Testing period : November 19, 2019 to December 02, 2019



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Test conducted:

2 Flammability Test

Test Standard : European Standard on Safety of Toys EN71-2:2011 + A1:2014

Clause	Testing items	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

Remark : P = Pass

NA= Not applicable

Testing period : November 19, 2019 to November 25, 2019



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Test conducted:

3 19 Toxic elements migration test[▲]

(A) Test result

With reference to EN 71-3: 2019. Determined by ICP-MS, LC-ICP-MS and GC-MS.

Category (III): Scraped-off toy material

Element (Soluble)	Result in mg/kg				LOD in mg/kg	LOQ in mg/kg	Limit in mg/kg
	(1)	(2)	(3)	(4)			
Aluminium (Al)	<5	ND	ND	ND	0.50	5	70000
Antimony (Sb)	ND	ND	ND	ND	0.20	5	560
Arsenic (As)	ND	ND	ND	ND	0.01	0.1	47
Barium (Ba)	17	ND	<5	ND	0.10	5	18750
Boron (B)	ND	ND	ND	ND	0.01	5	15000
Cadmium (Cd)	ND	ND	ND	ND	0.01	0.1	17
Chromium (Cr) ^Δ	0.226	<0.04	<0.04	0.047	0.01	0.04	-
Chromium (III) (Cr III)	0.226	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI)	<0.025#	NC	NC	NC	-	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	0.01	1	130
Copper (Cu)	ND	ND	ND	ND	0.50	5	7700
Lead (Pb)	ND	ND	ND	ND	0.10	1	23
Manganese (Mn)	6	ND	ND	ND	0.01	5	15000
Mercury (Hg)	ND	ND	ND	ND	0.20	1	94
Nickel (Ni)	ND	ND	ND	ND	0.10	5	930
Selenium (Se)	ND	ND	ND	ND	0.10	5	460
Strontium (Sr)	16	ND	ND	ND	0.10	5	56000
Tin (Sn) ^{ΔΔ}	ND	ND	ND	ND	0.10	1	180000
Organic tin	NC	NC	NC	NC	1	3	12
Zinc (Zn)	ND	9	6	ND	0.50	5	46000

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Test conducted:

Element (Soluble)	Result in mg/kg			LOD in mg/kg	LOQ in mg/kg	Limit in mg/kg
	(5)	(6)	(7)			
Aluminium (Al)	ND	ND	10	0.50	5	70000
Antimony (Sb)	ND	ND	ND	0.20	5	560
Arsenic (As)	ND	ND	ND	0.01	0.1	47
Barium (Ba)	ND	ND	7	0.10	5	18750
Boron (B)	ND	ND	ND	0.01	5	15000
Cadmium (Cd)	ND	ND	ND	0.01	0.1	17
Chromium (Cr) ^Δ	<0.04	<0.04	0.839	0.01	0.04	-
Chromium (III) (Cr III)	NC	NC	0.839	-	-	460
Chromium (VI) (Cr VI)	NC	NC	<0.025#	-	0.025	0.053
Cobalt (Co)	ND	ND	ND	0.01	1	130
Copper (Cu)	ND	ND	ND	0.50	5	7700
Lead (Pb)	ND	ND	ND	0.10	1	23
Manganese (Mn)	ND	ND	<5	0.01	5	15000
Mercury (Hg)	ND	ND	ND	0.20	1	94
Nickel (Ni)	ND	ND	ND	0.10	5	930
Selenium (Se)	ND	ND	ND	0.10	5	460
Strontium (Sr)	ND	ND	7	0.10	5	56000
Tin (Sn) ^{ΔΔ}	ND	ND	ND	0.10	1	180000
Organic tin	NC	NC	NC	1	3	12
Zinc (Zn)	ND	5	74	0.50	5	46000

Remark:

- mg/kg = Milligram per kilogram = ppm
- < = Less than
- NC = Not conducted
- ND = Not detected (Less than LOD)
- LOD = Limit of Detection
- LOQ = Limit of Quantitation
- ▲ = Tested items are not included in the TISI Accreditation
- Δ = If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium (III) and Chromium (VI).
- ΔΔ = If the migration of total Tin is below the maximum limit for Organic Tin, it can be inferred that the material complies with the requirements for Organic Tin.

- The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] was quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.

- The new chromium (VI) migration limit (0.053mg/kg) for Category (III) was quoted from directive (EU) Directive 2018/725 amending 2009/48/EC effective from 18 November 2019.

- Organic tin test result was expressed as tributyl tin.

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Test conducted:

= Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Tested component:

- (1) = Wooden
- (2) = Yellow rope
- (3) = Green coating on wood
- (4) = Yellow coating on wood
- (5) = Blue coating on wood
- (6) = Red coating on wood
- (7) = Lacquer coating on wood

Testing period: November 19, 2019 to December 02, 2019

Comment:

When tested as specified, the results of the tested components MET the 19 toxic elements limits of the European Council Directive 2009/48/EC and amendment 2012/7/EU on the Safety of Toys.

***** E N D ***** /AC/KS/NK

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