

# TEST REPORT

The report shall not be reproduced without written approval from Intertek  
The results relate only to the item tested.

Number: BKKH20008224

Applicant: DILEMMA GAMES LTD.  
63/2 MOO 3 NONGHARN SUB-DISTRICT SANSAI DISTRICT  
CHIANGMAI 50290 THAILAND  
ATTN: K. PEMIKA

Issued Date: Aug 18, 2020

## Sample Submitted:

Quantity of sample: Three (3) sets  
Sample description: Wooden toy  
Date sample received: August 04, 2020  
Date information received: August 17, 2020

## Client Information:

Item Name: Domino / Tock 4 / Tock 6  
Label Age grading: 3Y+  
Product End use: Monkey Pod Wood  
Country of Origin: Thailand



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To be continued

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



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Ladtaka Wongwibooporn  
Laboratory Manager  
Hardlines Department

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Number: BKKH20008224



**BKKH20008224**

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**Test conducted:**

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

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## Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	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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Number: BKKH20008224

Test conducted:

- 1 Mechanical and Physical Test  
1.1 Domino

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

Applicant's specified testing age : For ages over 3 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 (4.11 c and e <sup>▲</sup> )	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13 <sup>▲</sup>	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 <sup>▲</sup>	Toys containing non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24 <sup>▲</sup>	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26 <sup>▲</sup>	Toy Disguise Costumes	NA
4.27 <sup>▲</sup>	Flying toys	NA
5	Toys intended for children under 36 months	

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Number: BKKH20008224

Test conducted:

Clause	Testing items	Assessment
5.1	General requirements 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	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	See remark
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



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Number: BKKH20008224

Test conducted:

Mechanical and Physical Test

1.2 Tock 4

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

Applicant's specified testing age : For ages over 3 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	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	P
4.11 (4.11 c and e▲)	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	

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Number: BKKH20008224

Test conducted:

Clause	Testing items	Assessment
5.1	General requirements 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	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	See remark
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





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Number: BKKH20008224

Test conducted:

Mechanical and Physical Test

1.3 Tock 6

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

Applicant's specified testing age : For ages over 3 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	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	P
4.11 (4.11 c and e▲)	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	

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Number: BKKH20008224

Test conducted:

Clause	Testing items	Assessment
5.1	General requirements 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	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	See remark
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



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Number: BKKH20008224

Test conducted:

2 Flammability Test  
2.1 Domino

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

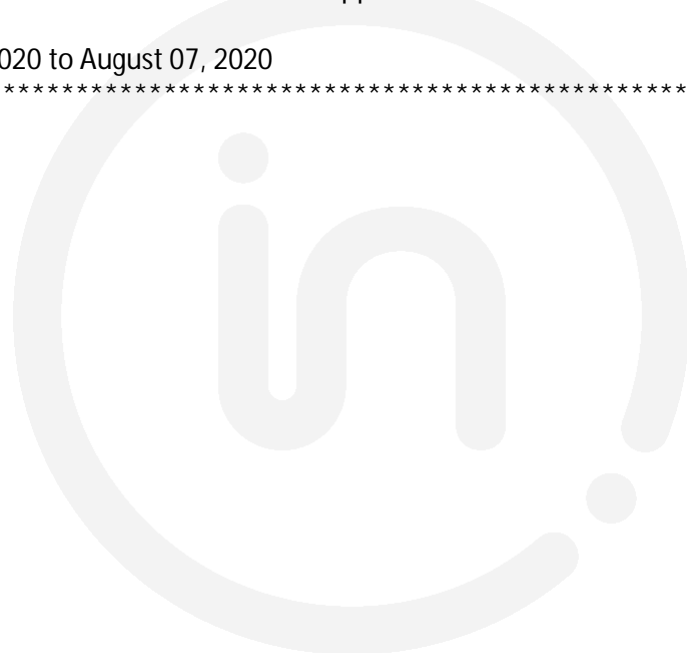
Clause	Testing items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark : P = Pass

NA= Not applicable

Testing period : August 04, 2020 to August 07, 2020

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Number: BKKH20008224

Test conducted:

Flammability Test  
2.2 Tock 4

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

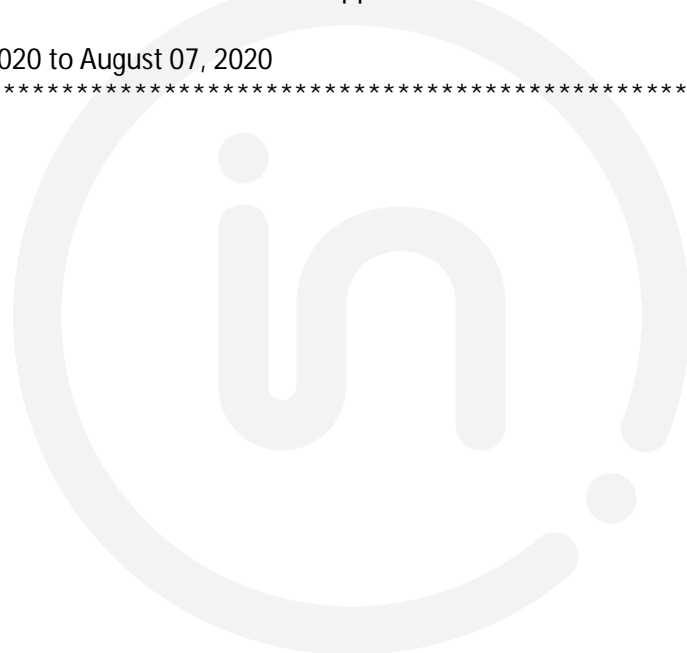
Clause	Testing items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark : P = Pass

NA= Not applicable

Testing period : August 04, 2020 to August 07, 2020

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Number: BKKH20008224

Test conducted:

Flammability Test  
2.3 Tock 6

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

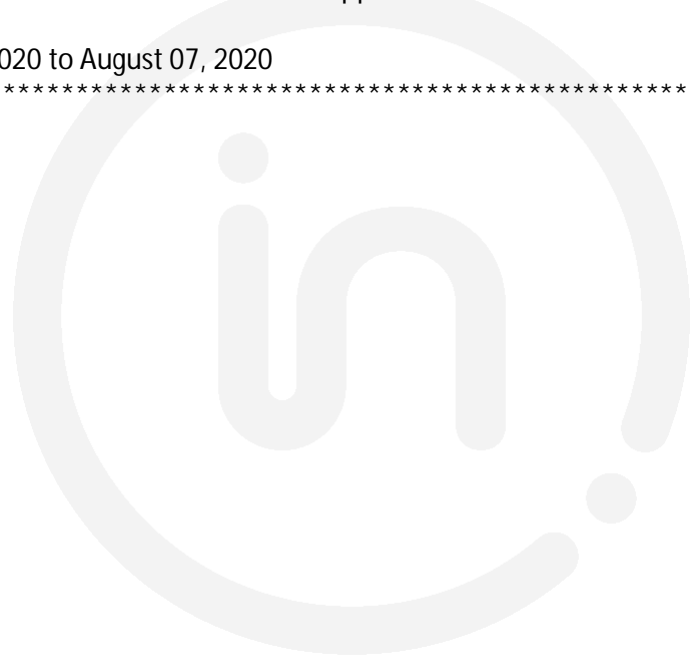
Clause	Testing items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark : P = Pass

NA= Not applicable

Testing period : August 04, 2020 to August 07, 2020

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Number: BKKH20008224

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)	ND	ND	ND	ND	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	1	5	560
Arsenic (As)	ND	ND	ND	ND	0.02	0.1	47
Barium (Ba)	12	ND	ND	ND	1	5	18750
Boron (B)	ND	ND	ND	ND	1	5	15000
Cadmium (Cd)	ND	ND	ND	ND	0.02	0.1	17
Chromium (Cr) <sup>Δ</sup>	<0.04	ND	ND	ND	0.01	0.04	-
Chromium (III) (Cr III) <sup>▲</sup>	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI) <sup>▲</sup>	NC	NC	NC	NC	-	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	0.20	1	130
Copper (Cu)	ND	ND	ND	ND	1	5	7700
Lead (Pb)	ND	ND	ND	ND	0.20	1	23
Manganese (Mn)	ND	ND	ND	ND	1	5	15000
Mercury (Hg)	ND	ND	ND	ND	0.20	1	94
Nickel (Ni)	ND	ND	ND	ND	1	5	930
Selenium (Se)	ND	ND	ND	ND	1	5	460
Strontium (Sr)	15	ND	ND	ND	1	5	56000
Tin (Sn) <sup>ΔΔ</sup>	ND	ND	ND	ND	0.20	1	180000
Organic tin <sup>▲</sup>	NC	NC	NC	NC	1	3	12
Zinc (Zn)	ND	ND	<5	ND	1	5	46000

Element (Soluble)	Result in mg/kg				LOD in mg/kg	LOQ in mg/kg	Limit in mg/kg
	(5)	(6)	(7)	(8)			
Aluminium (Al)	6	ND	<5	ND	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	1	5	560
Arsenic (As)	ND	ND	ND	ND	0.02	0.1	47
Barium (Ba)	ND	ND	ND	22	1	5	18750
Boron (B)	ND	ND	ND	ND	1	5	15000
Cadmium (Cd)	ND	ND	ND	ND	0.02	0.1	17
Chromium (Cr) <sup>Δ</sup>	ND	ND	ND	ND	0.01	0.04	-
Chromium (III) (Cr III) <sup>▲</sup>	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI) <sup>▲</sup>	NC	NC	NC	NC	-	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	0.20	1	130
Copper (Cu)	ND	ND	ND	ND	1	5	7700
Lead (Pb)	ND	ND	ND	ND	0.20	1	23
Manganese (Mn)	ND	ND	ND	ND	1	5	15000
Mercury (Hg)	ND	ND	ND	ND	0.20	1	94
Nickel (Ni)	ND	ND	ND	ND	1	5	930
Selenium (Se)	ND	ND	ND	ND	1	5	460
Strontium (Sr)	ND	ND	ND	ND	1	5	56000
Tin (Sn) <sup>ΔΔ</sup>	ND	ND	ND	ND	0.20	1	180000
Organic tin <sup>▲</sup>	NC	NC	NC	NC	1	3	12
Zinc (Zn)	ND	ND	ND	15	1	5	46000

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Test conducted:

- 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.

Note: As request by the applicant, the toxic elements analysis was conducted only on components listed in the report. Other components were not tested.

Tested component:

- (1) = Wooden
- (2) = Lacquer
- (3) = Yellow paint
- (4) = Red paint
- (5) = White paint
- (6) = Black paint
- (7) = Green paint
- (8) = Blue paint

Testing period: August 04, 2020 to August 06, 2020

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

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