

TEST REPORT

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

Number: BKKH1809475

Applicant: PLAN CREATIONS CO., LTD.
8 MOO 8, TRANG-PALIAN RD.,
YANTAKAO, TRANG, THAILAND 92140
ATTN: K.NARONG, K.SUPAPORN

Date: Nov 23, 2018

Sample description:

| | |
|----------------------------|-------------------|
| Quantity of sample: | One (1) set |
| Sample description: | Wooden toy |
| Date sample received: | July 20, 2018 |
| Date information received: | November 23, 2018 |

Client Information:

One (1) set of submitted sample said to be FRUIT & VEGGIE DOMINO

Item Name: FRUIT & VEGGIE DOMINO
Item Number: 5639



Test conducted:

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

To be continued

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



Ladtaka Wongwiboonporn
Laboratory Manager
Hardlines Department

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Conclusion:

| <u>Tested samples</u> | <u>Standard</u> | <u>Result</u> |
|-----------------------|---|---------------|
| Submitted sample | U.S. ASTM F963-17 for Physical and mechanical tests | Pass |
| | U.S. ASTM F963-17 for Flammability test of materials other than textile materials | Pass |
| | U.S. ASTM F963-16 for Heavy elements Test | Pass |
| | <u>Standard - U.S. CFR title 16</u> (CPSC regulations) Part 1303 total Lead content | Pass |
| | <u>Standard</u> U.S. Consumer product safety improvement Act 2008(H.R. 4040) Title I, Section 101 For total lead content in surface coating | Pass |
| | US 16 CFR Part 1307 for Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates | Pass |
| | Phthalate Content Requirement base on the California Proposition 65 | Pass |
| | Illinois Lead Poisoning Prevention Act 410 ILCS 45 section 6 (public act 095-1019) | Pass |

Remark: As requested by the applicant, the test was conducted only on components listed in this report. Other components were not tested.



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Remark:

The chemical test results was not conducted on the below components of samples. Applicant claimed the components were tested on our previous test report.

| <u>Components</u> | <u>Report No.</u> | <u>Date</u> |
|----------------------------------|-------------------|--------------|
| <u>ASTM F963-16: Heavy metal</u> | | |
| ORANGE COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| BROWN COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| YELLOW COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| RED COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| GREEN COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| LIGHT GREEN COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| PURPLE COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| LIGHT GRAY COATING ON SAWDUST | BKKH18013956 | Oct 31, 2018 |
| <u>Lead in surface coating</u> | | |
| ORANGE COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| BROWN COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| YELLOW COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| RED COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| GREEN COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| LIGHT GREEN COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| PURPLE COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| LIGHT GRAY COATING ON SAWDUST | BKKH18013956 | Oct 31, 2018 |
| <u>Phthalate content</u> | | |
| ORANGE COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| BROWN COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| YELLOW COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| RED COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| GREEN COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| LIGHT GREEN COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| PURPLE COATING ON SAWDUST | BKKH18013957 | Oct 22, 2018 |
| LIGHT GRAY COATING ON SAWDUST | BKKH18013956 | Oct 31, 2018 |



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Test conducted:

1 Physical And Mechanical Tests[▲]

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Age group for testing : For age over 2 years

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations : -

| <u>Test</u> | <u>FHSA</u> | <u>Parameter</u> |
|--------------|--------------------|------------------|
| Drop test | Section 1500.52(b) | 4 x 3.0 ft |
| Torque test | Section 1500.53(e) | 4 in-lbf |
| Tension test | Section 1500.53(f) | 15 lbf |

| <u>Clause</u> | <u>Testing items</u> | <u>Assessment</u> |
|---------------|--|-------------------|
| 4.1 | Material quality | P |
| 4.5 | Sound-producing toys | NA |
| 4.6.1 | Toys intended for children under 36 months (small objects) | P |
| 4.6.2 | Mouth-actuated toys | NA |
| 4.6.3 | Toys and games for 36 months to 72 months (small part warning) | NA |
| 4.7 | Accessible edges | P |
| 4.8 | Projections | NA |
| 4.9 | Accessible points | P |
| 4.10 | Wires or rods | NA |
| 4.11 | Nails and fasteners | NA |
| 4.12 | Plastic film | NA |
| 4.13 | Folding mechanisms and hinges | NA |
| 4.14 | Cords, straps and elastics | NA |
| 4.15 | Stability and over-load requirements | NA |
| 4.16 | Confined spaces | NA |
| 4.17 | Wheels, tires and axles | NA |
| 4.18 | Holes, clearance, and accessibility of mechanisms | NA |
| 4.19 | Simulated protective devices | NA |
| 4.20 | Pacifiers | NA |
| 4.21 | Projectile toys | NA |
| 4.22 | Teethers and teething toys | NA |

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Test conducted:

| Clause | Testing items | Assessment |
|--------|---|------------|
| 4.23 | Rattles | NA |
| 4.24 | Squeeze toys | NA |
| 4.25 | Battery-operated toys | NA |
| 4.26 | Toys intended to be attached to a crib or playpen | NA |
| 4.27 | Stuffed and beanbag-type toys | NA |
| 4.28 | Stroller and carriage toys | NA |
| 4.29 | Art materials | NA |
| 4.30 | Toy gun marking | NA |
| 4.31 | Balloons | NA |
| 4.32 | Certain toys with nearly spherical ends | NA |
| 4.33 | Marbles | NA |
| 4.34 | Balls | NA |
| 4.35 | Pompoms | NA |
| 4.36 | Hemispheric-shaped objects | NA |
| 4.37 | Yoyo elastic tether toys | NA |
| 4.38 | Magnets | NA |
| 4.39 | Jaw entrapment in handles and steering wheels | NA |
| 4.40 | Expanding materials | NA |
| 4.41 | Toy chests | NA |
| 5 | Labelling requirement | P |
| 6 | Instructional literature | P |
| 7 | Producer's markings | |
| | - name of producer (toy and package) | Yes |
| | - address (package) | Yes |

Remark : P = Pass NA = Not applicable

▲ = Tested items are not included in the TISI Accreditation

The submitted samples were undergone the tests in accordance with clause 8.5 through clause 8.17 and 8.19 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

Testing period : July 20, 2018 to August 19, 2018

2 Flammability Test▲

Test Standard : Clause 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Results : Did not ignite

▲ = Tested items are not included in the TISI Accreditation

Testing period : July 20, 2018 to August 19, 2018



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Number: BKKH1809475

Test conducted:

6 Phthalate content

As per CPSC-CH-C1001-09.3:2010 and U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040), Title I, Section 108 requirement on Phthalates, solvent extraction method was used and Phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.☒

| | <u>Result</u> | | | | | <u>LOD</u> | <u>LOQ</u> | <u>(16CFR1307)</u> | <u>NPR</u> |
|---|---------------|-----|-----|-----|-----|------------|------------|--------------------|------------|
| | (1) | (2) | (3) | (4) | (5) | (%, w/w) | (%, w/w) | Limit (%, w/w) | (%, w/w) |
| Dibutyl Phthalate (DBP) | ND | ND | ND | ND | ND | 0.0015 | 0.0030 | 0.1 | 0.1 |
| Di(2-ethylhexyl) phthalate (DEHP) | ND | ND | ND | ND | ND | 0.0015 | 0.0030 | 0.1 | 0.1 |
| Benzyl butyl Phthalate (BBP) | ND | ND | ND | ND | ND | 0.0015 | 0.0030 | 0.1 | 0.1 |
| Di-iso-nonyl Phthalate (DINP) | ND | ND | ND | ND | ND | 0.0015 | 0.0090 | 0.1 | 0.1 |
| Di-n-octyl Phthalate (DNOP) | ND | ND | ND | ND | ND | 0.0015 | 0.0030 | -- | -- |
| Di-iso-decyl Phthalate (DIDP) | ND | ND | ND | ND | ND | 0.0015 | 0.0090 | -- | -- |
| Di-isobutyl phthalate (DIBP) [▲] | ND | ND | ND | ND | ND | 0.0015 | 0.0090 | 0.1 | 0.1 |
| Di-n-pentyl phthalate (DPENP) [▲] | ND | ND | ND | ND | ND | 0.0015 | 0.0090 | 0.1 | 0.1 |
| Di-n-hexyl phthalate (DHEXP) [▲] | ND | ND | ND | ND | ND | 0.0015 | 0.0090 | 0.1 | 0.1 |
| Di-cyclohexyl phthalate (DCHP) [▲] | ND | ND | ND | ND | ND | 0.0015 | 0.0090 | 0.1 | 0.1 |
| Diisooctyl phthalate (DIOP) [▲] | ND | ND | ND | ND | ND | 0.0015 | 0.0090 | -- | -- |

Remark : The above limit was quoted according to US 16 CFR Part 1307 for Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates except the Phthalate no.5-6,11 was conducted as per applicant requested only.

- NPR = Notice of proposed rulemaking
- %, w/w = Percentage weight by weight
- LOD = Limit of Detection
- LOQ = Limit of Quantitation
- ND = Not detected (Less than LOD)
- ▲ = Tested items are not included in the TISI Accreditation

Tested components:

| | | | |
|-------|---------------------------|-------|--------------|
| (1) = | ORANGE COATING ON SAWDUST | Refer | BKKH18013957 |
| (2) = | BROWN COATING ON SAWDUST | Refer | BKKH18013957 |
| (3) = | YELLOW COATING ON SAWDUST | Refer | BKKH18013957 |
| (4) = | RED COATING ON SAWDUST | Refer | BKKH18013957 |
| (5) = | GREEN COATING ON SAWDUST | Refer | BKKH18013957 |



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Test conducted:

Phthalate content

As per CPSC-CH-C1001-09.3:2010 and U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040), Title I, Section 108 requirement on Phthalates, solvent extraction method was used and Phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.☐

| | <u>Result</u> | | | <u>LOD</u> | <u>LOQ</u> | <u>(16CFR1307)</u> | <u>NPR</u> |
|-----------------------------------|-----------------|-----|-----|-----------------|-----------------|-----------------------|-----------------|
| | <u>(%, w/w)</u> | | | <u>(%, w/w)</u> | <u>(%, w/w)</u> | <u>Limit (%, w/w)</u> | <u>(%, w/w)</u> |
| | (6) | (7) | (8) | | | | |
| Dibutyl Phthalate (DBP) | ND | ND | ND | 0.0015 | 0.0030 | 0.1 | 0.1 |
| Di(2-ethylhexyl) phthalate (DEHP) | ND | ND | ND | 0.0015 | 0.0030 | 0.1 | 0.1 |
| Benzyl butyl Phthalate (BBP) | ND | ND | ND | 0.0015 | 0.0030 | 0.1 | 0.1 |
| Di-iso-nonyl Phthalate (DINP) | ND | ND | ND | 0.0015 | 0.0090 | 0.1 | 0.1 |
| Di-n-octyl Phthalate (DNOP) | ND | ND | ND | 0.0015 | 0.0030 | -- | -- |
| Di-iso-decyl Phthalate (DIDP) | ND | ND | ND | 0.0015 | 0.0090 | -- | -- |
| Di-isobutyl phthalate (DIBP)▲ | ND | ND | ND | 0.0015 | 0.0090 | 0.1 | 0.1 |
| Di-n-pentyl phthalate (DPENP)▲ | ND | ND | ND | 0.0015 | 0.0090 | 0.1 | 0.1 |
| Di-n-hexyl phthalate (DHEXP)▲ | ND | ND | ND | 0.0015 | 0.0090 | 0.1 | 0.1 |
| Di-cyclohexyl phthalate (DCHP)▲ | ND | ND | ND | 0.0015 | 0.0090 | 0.1 | 0.1 |
| Diisooctyl phthalate (DIOP)▲ | ND | ND | ND | 0.0015 | 0.0090 | -- | -- |

Remark : The above limit was quoted according to US 16 CFR Part 1307 for Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates except the Phthalate no.5-6,11 was conducted as per applicant requested only.

- NPR = Notice of proposed rulemaking
- %, w/w = Percentage weight by weight
- LOD = Limit of Detection
- LOQ = Limit of Quantitation
- ND = Not detected (Less than LOD)
- ▲ = Tested items are not included in the TISI Accreditation

Tested components:

| | | | |
|-------|--------------------------------|-------|--------------|
| (6) = | LIGHT GREEN COATING ON SAWDUST | Refer | BKKH18013957 |
| (7) = | PURPLE COATING ON SAWDUST | Refer | BKKH18013957 |
| (8) = | LIGHT GRAY COATING ON SAWDUST | Refer | BKKH18013956 |



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Test conducted:

7 Phthalate content test[▲]

By solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

| | <u>Result</u> | | | | | <u>LOD</u> | <u>LOQ</u> | <u>Limit</u> |
|-----------------------------------|---------------|-----|-----|-----|-----|------------|------------|--------------|
| | (1) | (2) | (3) | (4) | (5) | (%, w/w) | (%, w/w) | (%, w/w) |
| Dibutyl Phthalate (DBP) | ND | ND | ND | ND | ND | 0.0015 | 0.0030 | 0.1 |
| Di(2-ethylhexyl) phthalate (DEHP) | ND | ND | ND | ND | ND | 0.0015 | 0.0030 | 0.1 |
| Benzyl butyl Phthalate (BBP) | ND | ND | ND | ND | ND | 0.0015 | 0.0030 | 0.1 |
| Di-iso-nonyl Phthalate (DINP) | ND | ND | ND | ND | ND | 0.0015 | 0.0090 | 0.1 |
| Dioctyl Phthalate (DNOP) | ND | ND | ND | ND | ND | 0.0015 | 0.0030 | 0.1 |
| Di-iso-decyl Phthalate (DIDP) | ND | ND | ND | ND | ND | 0.0015 | 0.0090 | 0.1 |
| Di-n-hexyl Phthalate (DnHP) | ND | ND | ND | ND | ND | 0.0015 | 0.0030 | 0.1 |

Remark : % , w/w = Percentage weight by weight
 LOD = Limit of Detection
 LOQ = Limit of Quantitation
 ND = Not detected (Less than LOD)
 ▲ = Tested items are not included in the TISI Accreditation

Note : The above limit was quoted according to the California Proposition 65

Tested components:

| | | | |
|-------|---------------------------|-------|--------------|
| (1) = | ORANGE COATING ON SAWDUST | Refer | BKKH18013957 |
| (2) = | BROWN COATING ON SAWDUST | Refer | BKKH18013957 |
| (3) = | YELLOW COATING ON SAWDUST | Refer | BKKH18013957 |
| (4) = | RED COATING ON SAWDUST | Refer | BKKH18013957 |
| (5) = | GREEN COATING ON SAWDUST | Refer | BKKH18013957 |



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Test conducted:

Phthalate content test[▲]

By solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

| | <u>Result</u> | | | <u>LOD</u> | <u>LOQ</u> | <u>Limit</u> |
|-----------------------------------|-----------------|-----|-----|-----------------|-----------------|-----------------|
| | <u>(%, w/w)</u> | | | <u>(%, w/w)</u> | <u>(%, w/w)</u> | <u>(%, w/w)</u> |
| | (6) | (7) | (8) | | | |
| Dibutyl Phthalate (DBP) | ND | ND | ND | 0.0015 | 0.0030 | 0.1 |
| Di(2-ethylhexyl) phthalate (DEHP) | ND | ND | ND | 0.0015 | 0.0030 | 0.1 |
| Benzyl butyl Phthalate (BBP) | ND | ND | ND | 0.0015 | 0.0030 | 0.1 |
| Di-iso-nonyl Phthalate (DINP) | ND | ND | ND | 0.0015 | 0.0090 | 0.1 |
| Dioctyl Phthalate (DNOP) | ND | ND | ND | 0.0015 | 0.0030 | 0.1 |
| Di-iso-decyl Phthalate (DIDP) | ND | ND | ND | 0.0015 | 0.0090 | 0.1 |
| Di-n-hexyl Phthalate (DnHP) | ND | ND | ND | 0.0015 | 0.0030 | 0.1 |

Remark : % , w/w = Percentage weight by weight
 LOD = Limit of Detection
 LOQ = Limit of Quantitation
 ND = Not detected (Less than LOD)
 ▲ = Tested items are not included in the TISI Accreditation

Note : The above limit was quoted according to the California Proposition 65

Tested components:

| | | | |
|-------|--------------------------------|-------|--------------|
| (6) = | LIGHT GREEN COATING ON SAWDUST | Refer | BKKH18013957 |
| (7) = | PURPLE COATING ON SAWDUST | Refer | BKKH18013957 |
| (8) = | LIGHT GRAY COATING ON SAWDUST | Refer | BKKH18013956 |



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Test conducted:

8 Total Lead (Pb) Content[▲]

As per Illinois Lead poisoning prevention act 410 ILCS 45 section 6 (public act 095-1019), acid digestion method was used and total Lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

I Surface coating material

| <u>Tested component</u> | <u>Result</u> <u>mg/kg</u> | <u>LOD</u> <u>mg/kg</u> | <u>LOQ</u> <u>mg/kg</u> | <u>Limit</u> <u>mg/kg</u> |
|-------------------------|-------------------------------|----------------------------|----------------------------|------------------------------|
| (1) | ND | 2 | 13 | 90 |
| (2) | ND | 2 | 13 | 90 |
| (3) | ND | 2 | 13 | 90 |
| (4) | ND | 2 | 13 | 90 |
| (5) | ND | 2 | 13 | 90 |
| (6) | ND | 2 | 13 | 90 |
| (7) | ND | 2 | 13 | 90 |
| (8) | ND | 2 | 13 | 90 |

Remark:

- < = Less than
- mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million
- LOD = Limit of Detection
- LOQ = Limit of Quantitation
- ND = Not detected (Less than LOD)
- ▲ = Tested items are not included in the TISI Accreditation

Requirement:

According to Illinois Lead poisoning prevention act 410 ILCS 45 section 6 (public act 095-019), appropriate warning statement is required when the Lead content of the submitted sample is more than 40 ppm but less than 90 ppm for surface coatings and less than 100 ppm for substrates by total weight or a lower standard for Lead content as may be established by federal or state law or regulation.



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Test conducted:

Tested components:

| | | | |
|-------|--------------------------------|-------|--------------|
| (1) = | ORANGE COATING ON SAWDUST | Refer | BKKH18013957 |
| (2) = | BROWN COATING ON SAWDUST | Refer | BKKH18013957 |
| (3) = | YELLOW COATING ON SAWDUST | Refer | BKKH18013957 |
| (4) = | RED COATING ON SAWDUST | Refer | BKKH18013957 |
| (5) = | GREEN COATING ON SAWDUST | Refer | BKKH18013957 |
| (6) = | LIGHT GREEN COATING ON SAWDUST | Refer | BKKH18013957 |
| (7) = | PURPLE COATING ON SAWDUST | Refer | BKKH18013957 |
| (8) = | LIGHT GRAY COATING ON SAWDUST | Refer | BKKH18013956 |

Note: LOD and LOQ value in this test report were effective since October, 2014

*****END*****/KS/NK

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