

# TEST REPORT

Applicant: KYOTO NAKAI SHOJI CO., LTD.  
117 KANZE-CHO OMIYA-ST  
IMADEGAWA AGARU KAMIKYO-KU  
KYOTO 602-8441 JAPAN

Number: HKGH0238813704

Date: Dec 13, 2018

Attn: MR. MASAYOSHI YAMADA

Submitted sample said to be : **HOT STAMPING FOIL**  
Series Name : **A23, A33, AP, SAM, WP**  
Country of Origin : **Japan**

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



Angel Y.F. Cheung  
Vice President



# TEST REPORT

Number : HKGH0238813704

**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) ASTM F963-17 - Soluble heavy elements test	Pass
(2) ASTM F963-17 - Total Lead content	Pass
(3) U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in non-surface coating materials (substrate)	Pass
(4) U.S. CFR Title 16 (CPSC Regulations) - Part 1303 - Total Lead content in surface coating	Pass
U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in surface coating	Pass
(5) U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 108 - Phthalate content	Pass
(6) US CPSC 16 CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates effective from April 25, 2018 - Phthalate content	Pass
(7) Model Toxics in Packaging Legislation (packaging materials) - Toxic elements test	Pass
(8) Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 section 23 with amendments SOR/2016-195 - Toxic elements test	Pass
(9) Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead content test	Pass

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# TEST REPORT

Number : HKGH0238813704

(1) Heavy Elements Analysis

Test Method : Sections 8.3.2, 8.3.3, 8.3.4 and 8.3.5 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17, acid extraction and analysed by Inductively Coupled Argon Plasma Spectrometry.

Materials other than modelling clay:

	Result (ppm)		Limit (ppm)
	(1)	(2)	
Soluble Barium (Ba)	<5	<5	1000
Soluble Lead (Pb)	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	75
Soluble Antimony (Sb)	<5	<5	60
Soluble Selenium (Se)	<5	<5	500
Soluble Chromium (Cr)	<5	<5	60
Soluble Mercury (Hg)	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	25

ppm = parts per million = mg/kg

Tested Components:

- (1) Silver color coating on plastic film (hot stamping foil).
- (2) Transparent plastic film excluding silver color coating (hot stamping foil).

Date sample received : Dec 04, 2018

Test Period : Dec 04, 2018 to Dec 07, 2018

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# TEST REPORT

Number : HKGH0238813704

(2) Total Lead (Pb) Content

Test Method : Sections 4.3.5.1(1) and 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17, CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Coating:

Tested Component	Result in ppm	Limit in ppm
(1)	<20	90

Substrate:

Tested Component	Result in ppm	Limit in ppm
(2)	<20	100

ppm = parts per million = mg/kg

Tested Components:

- (1) Silver color coating on plastic film (hot stamping foil).
- (2) Transparent plastic film excluding silver color coating (hot stamping foil).

Date sample received : Dec 04, 2018

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## TEST REPORT

Number : HKGH0238813704

(3) Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method : Standard Operating Procedures for Determining Total Lead (Pb) in Children's Products, test methods CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001.08.3, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<20	100

ppm = parts per million = mg/kg

Tested Component:

- (1) Transparent plastic film excluding silver color coating (hot stamping foil).

Date sample received : Dec 04, 2018  
Test Period : Dec 04, 2018 to Dec 07, 2018

(4) Total Lead (Pb) Content in Surface Coating

Test Method : Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, test method CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<20	90

ppm = parts per million = mg/kg

Tested Component:

- (1) Silver color coating on plastic film (hot stamping foil).

Date sample received : Dec 04, 2018  
Test Period : Dec 04, 2018 to Dec 07, 2018

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# TEST REPORT

Number : HKGH0238813704

(5) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Six Phthalate content:

Compound	Result (%, w/w)		Limit (%, w/w)
	(1)	(2)	
Dibutyl phthalate (DBP)	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	0.1

The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.

Tested Components:

- (1) Silver color coating on plastic film (hot stamping foil).
- (2) Transparent plastic film excluding silver color coating (hot stamping foil).

Date sample received : Dec 04, 2018  
Test Period : Dec 04, 2018 to Dec 07, 2018

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# TEST REPORT

Number : HKGH0238813704

(6) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)		Limit (% w/w)
	(1)	(2)	
Dibutyl phthalate (DBP)	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	0.1
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	<0.01	0.1
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	0.1

The above limits are quoted from Federal Register, Vol. 82, No. 207, October 27, 2017, Rules and Regulations, Final rule for 16 CFR Part 1307 "Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates" effective from April 25, 2018.

Tested Components:

- (1) Silver color coating on plastic film (hot stamping foil).
- (2) Transparent plastic film excluding silver color coating (hot stamping foil).

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# TEST REPORT

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(7) Toxic Elements Analysis

Test Method : Model Toxics in Packaging Legislation requirement of packaging and packaging components, 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
	(1)	(ppm)
Total Lead (Pb)	<5	--
Total Cadmium (Cd)	<5	--
Total Mercury (Hg)	<5	--
Chromium VI (Cr (VI))	<1	--
Sum of Pb, Cd, Hg and Cr (VI)	<16	100

ppm = parts per million = mg/kg

Tested Component:

(1) Transparent plastic film with silver color coating (hot stamping foil).

Date sample received : Dec 04, 2018

Test Period : Dec 04, 2018 to Dec 07, 2018

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# TEST REPORT

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(8) Toxic Elements Analysis

Test Method : Acid digestion and extraction methods were used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

	Result (% w/w)	Limit (% w/w)
	(1)	
Total Lead (Pb)	<0.001	0.009
Total Mercury (Hg)	ND	ND
Sol. Cadmium (Cd)	<0.001	0.100
Sol. Antimony (Sb)	<0.001	0.100
Sol. Selenium (Se)	<0.001	0.100
Sol. Arsenic (As)	<0.001	0.100
Sol. Barium (Ba)	<0.001	0.100

Sol. : Soluble

ND : Not detected (<0.0000078 (% w/w))

Tested Component:

(1) Silver color coating on plastic film (hot stamping foil).

Date sample received : Dec 04, 2018

Test Period : Dec 04, 2018 to Dec 07, 2018

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# TEST REPORT

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(9) Total Lead (Pb) Content

Test Standard : Acid digestion method was used and Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in mg/kg	Limit in mg/kg
(1)	<20	90
(2)	<20	90

mg/kg = milligram per kilogram

Tested Components:

- (1) Silver color coating on plastic film (hot stamping foil).
- (2) Transparent plastic film excluding silver color coating (hot stamping foil).

Date sample received : Dec 04, 2018

Test Period : Dec 04, 2018 to Dec 07, 2018

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End of report

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