

Number: TWNH00080832

Sample Description:

One (1) Groups of Submitted Samples Said To Be:

Item Name : Vestergaard 小直液海報筆 6 色(Black, White, Red, Sky blue,

Yellow.green, Brickroad)

Quantity : 1 Group
Date Sample Received : Sep 03, 2019
Date Test Started : Sep 03, 2019

Test Conducted:

As requested by the applicant, for details please refer to attached pages.

Conclusion:

Tested sampleStandardResultSubmitted SamplesMechanical and physical propertiesPass

As per applicant's request with reference to European standard on

safety of toys EN 71 part 1:2014 + A1 : 2018

Flammability test Pass

 $-\ \mbox{As per applicant}\mbox{'s request with reference to European standard on}$

safety of toys EN 71 part 2: 2011 + A1:2014

Tested Components of 19 To Submitted Samples – As

19 Toxic Element Migration Test

As per applicant's request with reference to European standard on

safety of toys EN71-3:2013+A3:2018

Authorized By:

On behalf of Intertek Testing Service

Taiwan Limited

Matt Wang Sr. Manager Signed by:

Thomas Chou Manager

Page 1 of 6



Pass



Number: TWNH00080832

Test Conducted

1. Mechanical and Physical Properties

As per applicant's request with reference to European standard on safety of toys EN 71 part 1:2014 + A1: 2018

Appropriate age group for testing: For ages over 6 years

Clause	Testing item	Assessment
4*	General requirements	P
5	Toys intended for children under 36 months	NA
6	Packaging	NA
7*	Warnings, markings and instructions for use	P#

Remarks: P = Pass: NA = Not applicable

= The applicant has certified that proper age grading, label and marking will put on the final product, and the age grading, label and marking certified meet the requirement of this standard. It is applicant's responsibility to make sure the final product with the age grading, label and marking as certified.

The following subclauses of the standard are found applicable :

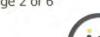
- 1) 4.1 Material cleanliness
- 2) 4.7 Edges
- 3) 4.8 Points and metallic, wires
- 7.1 General
- 5) 7.2 Toys not intended for children under 36 months

2. Flammability Test

As per applicant's request with reference to European standard on safety of toys EN 71 part 2: 2011 + A1:2014.

Clause	Testing item	Assessment
4.1	General	
	- Cellulose nitrate	P
	- Pile surface	NA
	- Flammable gas and liquid	P
4.2	Toys to be worn on the head (5.2/5.3/5.4)	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play (5.4)	NA
4.4	Toys intended to be entered by a child (5.4)	NA
4.5	Soft-filled toys(5.5)	NA
Remarks :	P = Pass	
	NA = Not applicable	







Number: TWNH00080832

Test Conducted

3. 19 Toxic Element Migration Test

As per applicant's request with reference to EN71-3:2013+A3:2018 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, UV-Vis Spectrophotometer (UV-VIS), Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES), Inductively Coupled Plasma Mass Spectrometer (ICP-MS) and Gas Chromatography-Mass Spectrometer (GC-MS), if necessary.

Category II: Liquid or sticky

Flowent	Result (mg/kg)						Detection limit	Limit
Element	(4)	(5)	(8)	(9)	(11)	(13)	(mg/kg)	(mg/kg)
Aluminium (Al)	550	430	1100	1100	1100	ND	100	1406
Antimony (Sb)	ND	ND	ND	ND	ND	ND	1.0	11.3
Arsenic (As)	ND	ND	ND	ND	ND	ND	0.5	0.9
Barium (Ba)	ND	130	ND	ND	ND	ND	10	375
Boron (B)	ND	ND	ND	ND	ND	ND	50	300
Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.1	0.3
Chromium (III) (Cr3+)	ND	ND	ND	ND	ND	ND	1.0	9.4
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	ND	ND	ND	0.003	0.005
Cobalt (Co)	ND	ND	ND	ND	ND	ND	1.0	2.6
Copper (Cu)	ND	ND	ND	ND	ND	ND	10	156
Lead (Pb)	0.2	0.4	0.2	0.2	0.3	ND	0.1	0.5
Manganese (Mn)	ND	ND	ND	ND	ND	ND	10	300
Mercury (Hg)	ND	ND	ND	ND	ND	ND	1.0	1.9
Nickel (Ni)	ND	ND	ND	ND	ND	ND	1.0	18.8
Selenium (Se)	ND	ND	ND	ND	ND	ND	1.0	9.4
Strontium (Sr)	ND	ND	ND	ND	ND	ND	100	1125
Tin (Sn)	ND	ND	ND	ND	ND	ND	10	3750
Organic tin	ND	ND	ND	ND	ND	ND	0.15	0.2
Zinc (Zn)	ND	ND	ND	ND	ND	ND	100	938







Number: TWNH00080832

Test Conducted

3. 19 Toxic Element Migration Test

Category III: Scraped-off toy material

Flowant		Result (Detection limit	Limit		
<u>Element</u>	(1)	(2)	(3)	(6)	(mg/kg)	(mg/kg)
Aluminium (Al)	ND	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5.0	17
Chromium (III) (Cr ³⁺)	ND	ND	ND	ND	10	460
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	ND	0.053	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	1.0	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	10	180000
Organic tin	ND	ND	ND	ND	3.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000

Flowant		Result (Detection limit	Limit		
<u>Element</u>	(7)	(10)	(12)	(14)	(mg/kg)	(mg/kg)
Aluminium (Al)	ND	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5.0	17
Chromium (III) (Cr ³⁺)	ND	ND	ND	ND	10	460
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	ND	0.053	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	1.0	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	10	180000
Organic tin	ND	ND	ND	ND	3.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000









Number: TWNH00080832

Test Conducted

3. 19 Toxic Element Migration Test

Remarks:

ND

= Not detected

- Organic tin test result was expressed as tributyl tin.

- The migration limit (0.053 mg/kg) of chromium (VI) for category (III) is quoted from Directive (EU) 2018/725 and will be enforced from 18 November 2019.

- According to the Annex F to EN 71-3:2013, the content of Chromium (III) from the migration solution was calculated through the formula: Chromium (III) = Total Chromium - Chromium(VI).

- The scope of confirmation test for organic tin includes Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin, Trimethyltin, Dimethyltin, Tricyclohexyltin and Trioctyltin and reports the total value after converted to Tributyl tin.

Tested Components:

- (1) Semitransparent plastic cap/barrel
- (2) Red plastic written/plug
- (3) Brickroad plastic written/plug
- (4) Red ink
- (5) Brickroad ink
- (6) Yellow green plastic written/plug
- (7) Sky blue plastic written/plug
- (8) Yellow green ink
- (9) Sky blue ink
- (10) White plastic written/plug
- (11) White ink
- (12) Black plastic written/plug
- (13) Black ink
- (14) White polymer fiber tip (substrate)



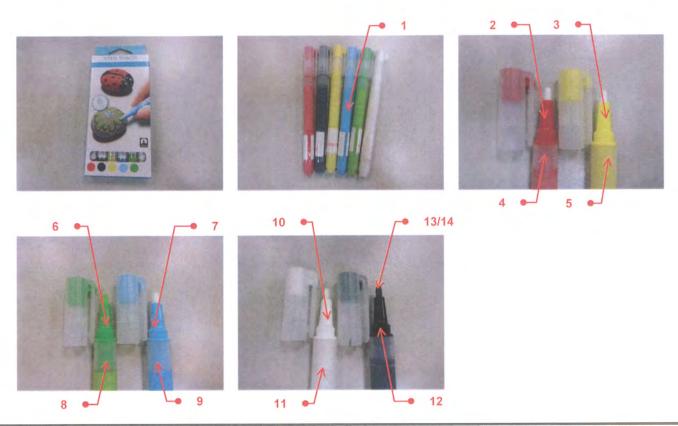






Number: TWNH00080832

Sample photo:



End of Report

Except where explicitly agreed in writing, all work and services performed by Intertek is subject to our standard Terms and Conditions which can be obtained at our website: http://www.intertektwn.com/terms/. Intertek's responsibility and liability are limited to the terms and conditions of the agreement.

This report is made solely on the basis of your instructions and / or information and materials supplied by you and provide no warranty on the tested sample(s) be truly representative of the sample source. 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. Intertek is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received and accepts no responsibility to any parties whatsoever, following the issue of the report, for any matters arising outside the agreed scope of the works. This report does not discharge or release you from your legal obligations and duties to any other person. You are the only one authorized to permit copying or distribution of this report (and then only in its entirety). Any such third parties to whom this report may be circulated rely on the content of the report solely at their own risk.

Reporting Statements of Conformity: Please note that the test results contain statement of conformity with the decision rules which are based on the specifications of customers, regulations and standards, and does not consider measurement uncertainty.





