Test Report No.: 70.452.22.13061.06

Date: 2023-01-18

Greater China

Applicant:	HAPE INTERNATIONAL (NINGBO) LTD. HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD
Address:	9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN,NINGBO,CHINA PC:315800
Product Name:	Dot Markers, Set of 8
Model No:	844271
Receipt Date of Sample:	2022-09-08
Date of Testing:	From 2022-09-08 to 2022-09-29
Sample Submitted:	The sample(s) was (were) submitted by applicant and identified.
Test Result:	Refer to the data listed in following pages

Test Item	Conclusion
1. **ASTM F963-17 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical**	**Pass**
2. **ASTM F963-17 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Materials Other Than Textile Materials**	**Pass**
3. **ASTM F963-17 Section 4.3.5.1 - Total Lead Content Test (Paint and Similar Surface Coating Materials)**	**Pass**
4. **Total Lead Content Test in accessible substrate materials in accordance with Consumer Product Safety Improvement Act of 2008 Section 101**	**Pass**
5. **16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates**	**Pass**
6. **ASTM F963-17 Section 4.3.5.1 &Section 4.3.5.2 - Soluble Heavy Elements**	**Pass**

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. ≤ Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. NA=Not Applicable
6. The test results are transferred from report 70.452.22.13061.02

Laboratory:
TÜV SÜD Certification and Testing (China) Co., Ltd.
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Note:

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(2) The results relate only to the Items tested.

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(4) Disclaimer Measurement Uncertainty:
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

Description of Tested Subject:

Sample	Description	Photo
001	Dot Markers, Set of 8	

T. No	Sample	Description
T1	001	Dot Markers, Set of 8
T2	002	White plastic (shell)
T3	003	White foam (nib)
T4	004	Transparent plastic (nib)
T5	005	Black plastic (cap)
T6	006	Green plastic (cap)
T7	007	Brown plastic (cap)
T8	008	Pink plastic (cap)
T9	009	Blue plastic (cap)
T10	010	Orange plastic (cap)
T11	011	Yellow plastic (cap)
T12	012	Red plastic (cap)
T13	013	White soft plastic with black printing (film)
T14	014	White soft plastic with green printing (film)
T15	015	White soft plastic with brown printing (film)
T16	016	White soft plastic with pink printing (film)
T17	017	White soft plastic with blue printing (film)
T18	018	White soft plastic with orange printing (film)
T19	019	White soft plastic with yellow printing (film)
T20	020	White soft plastic with red printing (film)
T21	021	Black liquid ink
T22	022	Green liquid ink
T23	023	Brown liquid ink
T24	024	Pink liquid ink
T25	025	Blue liquid ink
T26	026	Orange liquid ink
T27	027	Yellow liquid ink
T28	028	Red liquid ink

Test Result(s):

1. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical

Sample	001
Labelled age range	3+
Requested age range	3+
Age range in testing	Over 3 years

Clause	Requirement	Evaluation
4	Safety Requirements	--
4.1	Material quality	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
5	Labeling Requirements	--
5.2	Age Grading Labeling	P
5.16	Promotional Materials	P
6	Instructional Literature	--
6.1	Definition and Description	P
7	Producer's Markings	--
7.1	Name and Address of the Producer or Distributor	P

Abbreviation:
P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Note:
Only applicable sections were shown.

2. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Materials Other Than Textile Materials

As per Section 4.2 of ASTM F963-17 Standard Consumer Safety Specification for Toy Safety

Sample: 001
Result: Ignited but Self-Extinguished before Burn Rate Could be Determined

Note:
The submitted toy sample and its accessories were tested, the above result only showed the most severe burn rate of the samples.

3. ASTM F963-17 Section 4.3.5.1 - Total Lead Content Test (Paint and Similar Surface Coating Materials)

Test with reference to in house method, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002+004+005	mg/kg	10	100	<10.0	**Pass**
003	mg/kg	10	100	<10.0	**Pass**
006+007+008	mg/kg	10	100	<10.0	**Pass**
009+010+011	mg/kg	10	100	<10.0	**Pass**
012	mg/kg	10	100	<10.0	**Pass**
013+014	mg/kg	10	100	<10.0	**Pass**
015+016	mg/kg	10	100	<10.0	**Pass**
017+018	mg/kg	10	100	<10.0	**Pass**
019+020	mg/kg	10	100	<10.0	**Pass**

4. Total Lead Content Test in accessible substrate materials in accordance with Consumer Product Safety Improvement Act of 2008 Section 101

Test with reference to in house method, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002+004+005	mg/kg	10	100	<10.0	**Pass**
003	mg/kg	10	100	<10.0	**Pass**
006+007+008	mg/kg	10	100	<10.0	**Pass**
009+010+011	mg/kg	10	100	<10.0	**Pass**
012	mg/kg	10	100	<10.0	**Pass**
013+014	mg/kg	10	100	<10.0	**Pass**
015+016	mg/kg	10	100	<10.0	**Pass**
017+018	mg/kg	10	100	<10.0	**Pass**
019+020	mg/kg	10	100	<10.0	**Pass**

5. 16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test with reference to in-house method, determination by GC-MS.

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					002+004+005	003
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					006+007+008	009+010+011
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					012	013+014
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					015+016	017+018
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

Compound	CAS No.	Unit	MDL	Limit	Result(s)
					019+020
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005
Conclusion					**Pass**

6. ASTM F963-17 Section 4.3.5.1 &Section 4.3.5.2 - Soluble Heavy Elements

Test with reference to ASTM F963-17 Section 8.3

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]				
			002	003	005	006	007
Soluble Antimony	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Arsenic	5.0	25	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Barium	5.0	1000	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Cadmium	5.0	75	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Chromium	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Lead	5.0	90	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Mercury	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Selenium	5.0	500	<5.0	<5.0	<5.0	<5.0	<5.0
Conclusion			**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]				
			008	009	010	011	012
Soluble Antimony	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Arsenic	5.0	25	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Barium	5.0	1000	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Cadmium	5.0	75	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Chromium	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Lead	5.0	90	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Mercury	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Selenium	5.0	500	<5.0	<5.0	<5.0	<5.0	<5.0
Conclusion			**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]				
			013	014	015	016	017
Soluble Antimony	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Arsenic	5.0	25	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Barium	5.0	1000	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Cadmium	5.0	75	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Chromium	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Lead	5.0	90	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Mercury	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Selenium	5.0	500	<5.0	<5.0	<5.0	<5.0	<5.0
Conclusion			**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]				
			018	019	020	021	022
Soluble Antimony	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Arsenic	5.0	25	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Barium	5.0	1000	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Cadmium	5.0	75	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Chromium	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Lead	5.0	90	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Mercury	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Selenium	5.0	500	<5.0	<5.0	<5.0	<5.0	<5.0
Conclusion			**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]					
			023	024	025	026	027	028
Soluble Antimony	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Arsenic	5.0	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Barium	5.0	1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Cadmium	5.0	75	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Chromium	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Lead	5.0	90	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Mercury	5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Soluble Selenium	5.0	500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Conclusion			**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

Note: 1. Adjusted analytical result
2. The test results of the sample 021~028 is transferred from sample 002~009 of report 70.452.22.12522.01
3. Mass of trace amount of sample 013 is 31.00 mg, sample 014 is 31.00 mg, sample 015 is 36.00 mg, sample 016 is 35.00 mg, sample 017 is 24.00 mg, sample 018 is 30.00 mg, sample 019 is 33.00 mg

-End of Test Report-