



**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 1 of 19

Application ID : JA0017504(6)  
Applicant : The Pencil Grip.Inc.  
21200 Superior St. Suite A Chatsworth, CA 91311


Sample : One (1) group of submitted sample(s) stated to be:  
Sample Description : Magic Stix  
Sample/Style No. : TPG-392, TPG-394  
Country of Origin : China  
Country of Destination : USA and Canada  
Labeled Age Grade : Not specified  
Age Grade for testing : 3+

Date of Receiving : 2019-3-14  
Testing Period : 2019-3-27 to 2019-3-29

believable service with Unlimited care

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*

SIGN FOR AND ON BEHALF OF  
UNITEC LABORATORY SERVICES (DONGGUAN) LTD.

  
XINLEI DU  
LABORATORY MANAGER

This is to supersede report no. RA0020516(3) date 2 May, 2019.





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 2 of 19

TEST REQUEST		RESULT
A)	AS REQUESTED BY THE APPLICANT, TO PERFORM MECHANICAL AND PHYSICAL TEST(S) OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH U.S. CFR TITLE 16 (CPSC REGULATIONS), PART 1500.50.	PASS
B)	AS REQUESTED BY THE APPLICANT, TO PERFORM FLAMMABILITY TEST(S) OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH U.S. CFR TITLE 16 (CPSC REGULATIONS), PART 1500.44.	PASS
C)	AS REQUESTED BY THE APPLICANT, TO DETERMINE TOTAL LEAD CONTENT IN THE SUBSTRATE OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH U.S. CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008, SECTION 101, CALIFORNIA PROPOSITION 65, ILLINOIS (410 ILCS 45/) LEAD POISONING PREVENTION ACT.	PASS
D)	AS REQUESTED BY THE APPLICANT, TO DETERMINE TOTAL LEAD CONTENT IN PAINT / SIMILAR SURFACE COATING OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH U.S. CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008, SECTION 101, CALIFORNIA PROPOSITION 65, ILLINOIS (410 ILCS 45/) LEAD POISONING PREVENTION ACT AND U.S. CFR TITLE 16 (CPSC REGULATIONS) PART 1303.	PASS
E)	AS REQUESTED BY THE APPLICANT, TO DETERMINE PHTHALATES CONTENT OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH 16 CFR PART 1307 - PROHIBITION OF CHILDREN'S TOYS AND CHILD CARE ARTICLES CONTAINING SPECIFIED PHTHALATES AND U.S. CALIFORNIA PROPOSITION 65 AND WASHINGTON CHILDREN'S SAFE PRODUCTS ACT (RCW 70.240.020).	PASS
F)	AS REQUESTED BY THE APPLICANT, TO PERFORM MECHANICAL AND PHYSICAL PROPERTIES TEST(S) OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH CANADA CONSUMER PRODUCT SAFETY ACT, TOYS REGULATIONS SOR/2011-17.	PASS
G)	AS REQUESTED BY THE APPLICANT, TO PERFORM FLAMMABILITY TEST(S) OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH CANADA CONSUMER PRODUCT SAFETY ACT, TOYS REGULATIONS SOR/2011-17.	PASS
H)	AS REQUESTED BY THE APPLICANT, TO DETERMINE HEAVY METALS CONTENT IN SURFACE COATINGS OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH CANADA CONSUMER PRODUCT SAFETY ACT, TOYS REGULATIONS SOR/2011-17, SECTION 23.	PASS
I)	AS REQUESTED BY THE APPLICANT, TO DETERMINE MERCURY CONTENT OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH CANADIAN ENVIRONMENTAL PROTECTION ACT, PRODUCTS CONTAINING MERCURY REGULATIONS SOR/2014-254.	PASS
J)	AS REQUESTED BY THE APPLICANT, TO DETERMINE PHTHALATES CONTENT OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH CANADA CONSUMER PRODUCT SAFETY ACT, SOR/2016-188 PHTHALATES REGULATIONS.	PASS





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 3 of 19

Test Result(s):

**A) 16 CFR Part 1500.50 - Mechanical and Physical Test**

As Per U.S. Code of Federal Regulations Title 16 Part 1500.50, the Hazards of Sharp Points, Sharp Edges and Small Parts are assessed both before and after applicable use and abuse tests.

Test Item(s)	FHSA	No. of Sample Tested	Sharp Point (1500.48)	Sharp Edge (1500.49)	Small Part (1501)
As Received		1	Pass	Pass	Pass
Impact	Section 1500.51(b)	1	Pass	Pass	Pass
Bite	Section 1500.53(c)	0	NA	NA	NA
Flexure	Section 1500.53(d)	0	NA	NA	NA
Torque	Section 1500.53(e)	1	Pass	Pass	Pass
Tension	Section 1500.53(f)	1	Pass	Pass	Pass
Compression	Section 1500.53(g)	1	Pass	Pass	Pass

Note: NA = Not Applicable.

**B) 16 CFR Part 1500.44 - Flammability Test**

As per U.S. Code of Federal Regulations Title 16 Part 1500.44 for Rigid and Pliable Solids.

Sample	Burning Rate (inch/sec.)	Limit (inch/sec.)
Magic Stix	Did Not Ignite	0.10

Note: The submitted sample was tested, the above result only showed the most severe burning rate of the samples.

**C) Total Lead in Accessible Substrate Materials**

With reference to CPSC-CH-E1002-08.3.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Total Lead (Pb)	---
Method Detection Limit (mg/kg)	2	---
CPSIA / Cal. Prop 65 Limits (mg/kg)	100	---
Illinois Limit (mg/kg)	40*	---
Test Part Description	Result (mg/kg)	Comment
No.1 Red/ white plastic (shell of marker)	ND	Pass
Dark red/ white plastic (shell of marker)		
Blue/ white plastic (shell of marker)		





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 4 of 19

Test Item		Total Lead (Pb)	---
Method Detection Limit (mg/kg)		2	---
CPSIA / Cal. Prop 65 Limits (mg/kg)		100	---
Illinois Limit (mg/kg)		40*	---
Test Part Description		Result (mg/kg)	Comment
No.2	Sky-blue/ white plastic (shell of marker) Dark blue/ white plastic (shell of marker) Royal purple/ white plastic (shell of marker)	ND	Pass
No.3	Green plastic/ white (shell of marker) Dull green/ white plastic (shell of marker) Dark green/ white plastic (shell of marker)	ND	Pass
No.4	Orange plastic/ white (shell of marker) Dull orange/ white plastic (shell of marker) Army green/ white plastic (shell of marker)	ND	Pass
No.5	Black plastic/ white (shell of marker) Bright yellow/ white plastic (shell of marker) Dull yellow/ white plastic (shell of marker)	ND	Pass
No.6	Dark grey/ white plastic (shell of marker) Grey/ white plastic (shell of marker) Brown/ white plastic (shell of marker)	ND	Pass
No.7	Dark brown/ white plastic (shell of marker) Light brown/ white plastic (shell of marker) Pink plastic/ white (shell of marker)	ND	Pass
No.8	Dark pink/ white plastic (shell of marker) Purple/ white plastic (shell of marker) Dark purple/ white plastic (shell of marker)	ND	Pass
No.9	Dull black plastic (shell of all markers) Translucent plastic box Transparent plastic film with inaccessible coating	ND	Pass
No.10	White fiber (tip of all markers)	ND	Pass
No.11	Red ink (ink) Dark red ink (ink) Blue ink (ink)	ND	Pass



**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 5 of 19

Test Item		Total Lead (Pb)	---
Method Detection Limit (mg/kg)		2	---
CPSIA / Cal. Prop 65 Limits (mg/kg)		100	---
Illinois Limit (mg/kg)		40*	---
Test Part Description		Result (mg/kg)	Comment
No.12	Sky-blue ink (ink) Dark blue ink (ink) Royal purple ink (ink)	ND	Pass
No.13	Green ink (ink) Dull green ink (ink) Dark green ink (ink)	ND	Pass
No.14	Orange ink (ink) Dull orange ink (ink) Army green ink (ink)	ND	Pass
No.15	Black ink (ink) Bright yellow ink (ink) Dull yellow ink (ink)	ND	Pass
No.16	Dark grey ink (ink) Grey ink (ink) Brown ink (ink)	ND	Pass
No.17	Dark brown ink (ink) Light brown ink (ink) Pink ink (ink)	ND	Pass
No.18	Dark pink ink (ink) Purple ink (ink) Dark purple ink (ink)	ND	Pass

- Note:
1. mg/kg = Milligram per kilogram = ppm
  2. ND = Not detected (<Method detection limit)
  3. \* = If total lead content in any component part of the item that is, more than 0.004% (40 parts per million) but less than 0.010% (100 parts per million) in substrates by weight, item need bear a warning statement indicates that at least one component part of the item contains lead.



**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 6 of 19

**D) Total Lead in Paint / Similar Surface Coating**

With reference to CPSC-CH-E1003-09.1.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item		Total Lead (Pb)	---
Method Detection Limit (mg/kg)		2	---
CPSIA / Cal. Prop 65 / 16 CFR 1303 Limits (mg/kg)		90	---
Illinois Limit (mg/kg)		40*	---
Test Part Description		Result (mg/kg)	Comment
No.1	Silvery coating on plastic (logo on all markers)	ND	Pass

- Note:
1. mg/kg = Milligram per kilogram = ppm
  2. ND = Not detected (<Method detection limit)
  3. \* = If total lead content in any component part of the item that is, more than 0.004% (40 parts per million) but less than 0.009% (90 parts per million) in Paint / Similar Surface Coating by weight, item need bear a warning statement indicates that at least one component part of the item contains lead.

**E) Phthalates Content**

With reference to CPSC-CH-C1001-09.4, analysis was performed by Gas Chromatography/Mass Spectrometry (GC-MS).

Test Item		DnHP DHEXP	DBP	BBP	DEHP	DINP	DNOP	DIDP	---
Method Detection Limit (%)		0.003	0.003	0.003	0.003	0.010	0.003	0.010	---
16 CFR Part 1307 & Cal. Prop 65 Limits (%)		0.1	0.1	0.1	0.1	0.1	---	0.1	---
Washington Limit (%)		---	0.1 (Sum)						---
Client Limit (%)		0.1 (Sum)						---	
Test Part Description		Result (%)							Comment
No.1	Red/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dark red/ white plastic (shell of marker)								
	Blue/ white plastic (shell of marker)								
No.2	Sky-blue/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dark blue/ white plastic (shell of marker)								
	Royal purple/ white plastic (shell of marker)								





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 7 of 19

Test Item		DnHP DHEXP	DBP	BBP	DEHP	DINP	DNOP	DIDP	---
Method Detection Limit (%)		0.003	0.003	0.003	0.003	0.010	0.003	0.010	---
16 CFR Part 1307 & Cal. Prop 65 Limits (%)		0.1	0.1	0.1	0.1	0.1	---	0.1	---
Washington Limit (%)		---	0.1 (Sum)						---
Client Limit (%)		0.1 (Sum)						---	
Test Part Description		Result (%)							Comment
No.3	Green plastic/ white (shell of marker)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dull green/ white plastic (shell of marker)								
	Dark green/ white plastic (shell of marker)								
No.4	Orange plastic/ white (shell of marker)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dull orange/ white plastic (shell of marker)								
	Army green/ white plastic (shell of marker)								
No.5	Black plastic/ white (shell of marker)	ND	ND	ND	ND	ND	ND	ND	Pass
	Bright yellow/ white plastic (shell of marker)								
	Dull yellow/ white plastic (shell of marker)								
No.6	Dark grey/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	ND	Pass
	Grey/ white plastic (shell of marker)								
	Brown/ white plastic (shell of marker)								
No.7	Dark brown/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	ND	Pass
	Light brown/ white plastic (shell of marker)								
	Pink plastic/ white (shell of marker)								





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 8 of 19

Test Item		DnHP DHEXP	DBP	BBP	DEHP	DINP	DNOP	DIDP	---
Method Detection Limit (%)		0.003	0.003	0.003	0.003	0.010	0.003	0.010	---
16 CFR Part 1307 & Cal. Prop 65 Limits (%)		0.1	0.1	0.1	0.1	0.1	---	0.1	---
Washington Limit (%)		---	0.1 (Sum)						---
Client Limit (%)		0.1 (Sum)						---	
Test Part Description		Result (%)							Comment
No.8	Dark pink/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	ND	Pass
	Purple/ white plastic (shell of marker)								
	Dark purple/ white plastic (shell of marker)								
No.9	Dull black plastic (shell of all markers)	ND	ND	ND	ND	ND	ND	ND	Pass
	Translucent plastic box								
	Transparent plastic film with inaccessible coating								
No.10	White fiber (tip of all markers)	ND	ND	ND	ND	ND	ND	ND	Pass
No.11	Red ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dark red ink (ink)								
	Blue ink (ink)								
No.12	Sky-blue ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dark blue ink (ink)								
	Royal purple ink (ink)								
No.13	Green ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dull green ink (ink)								
	Dark green ink (ink)								
No.14	Orange ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dull orange ink (ink)								
	Army green ink (ink)								
No.15	Black ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Bright yellow ink (ink)								
	Dull yellow ink (ink)								







**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 9 of 19

Test Item	DnHP DHEXP	DBP	BBP	DEHP	DINP	DNOP	DIDP	---
Method Detection Limit (%)	0.003	0.003	0.003	0.003	0.010	0.003	0.010	---
16 CFR Part 1307 & Cal. Prop 65 Limits (%)	0.1	0.1	0.1	0.1	0.1	---	0.1	---
Washington Limit (%)	---	0.1 (Sum)						---
Client Limit (%)	0.1 (Sum)						---	
Test Part Description	Result (%)							Comment
No.16	Dark grey ink (ink) Grey ink (ink) Brown ink (ink)							Pass
No.17	Dark brown ink (ink) Light brown ink (ink) Pink ink (ink)							Pass
No.18	Dark pink ink (ink) Purple ink (ink) Dark purple ink (ink)							Pass
No.19	Silvery coating on plastic (logo on all markers)							Pass

Test Item	DIBP	DPENP	DCHP	---
Method Detection Limit (%)	0.003	0.010	0.010	---
16 CFR Part 1307 & Cal. Prop 65 Limits (%)	0.1	0.1	0.1	---
Test Part Description	Result (%)			Comment
No.1	Red/ white plastic (shell of marker) Dark red/ white plastic (shell of marker) Blue/ white plastic (shell of marker)			Pass
No.2	Sky-blue/ white plastic (shell of marker) Dark blue/ white plastic (shell of marker) Royal purple/ white plastic (shell of marker)			Pass





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 10 of 19

Test Item		DIBP	DPENP	DCHP	---
Method Detection Limit (%)		0.003	0.010	0.010	---
16 CFR Part 1307 & Cal. Prop 65 Limits (%)		0.1	0.1	0.1	---
Test Part Description		Result (%)			Comment
No.3	Green plastic/ white (shell of marker)	ND	ND	ND	Pass
	Dull green/ white plastic (shell of marker)				
	Dark green/ white plastic (shell of marker)				
No.4	Orange plastic/ white (shell of marker)	ND	ND	ND	Pass
	Dull orange/ white plastic (shell of marker)				
	Army green/ white plastic (shell of marker)				
No.5	Black plastic/ white (shell of marker)	ND	ND	ND	Pass
	Bright yellow/ white plastic (shell of marker)				
No.6	Dull yellow/ white plastic (shell of marker)	ND	ND	ND	Pass
	Dark grey/ white plastic (shell of marker)				
	Grey/ white plastic (shell of marker)				
No.7	Brown/ white plastic (shell of marker)	ND	ND	ND	Pass
	Dark brown/ white plastic (shell of marker)				
	Light brown/ white plastic (shell of marker)				
No.8	Pink plastic/ white (shell of marker)	ND	ND	ND	Pass
	Dark pink/ white plastic (shell of marker)				
	Purple/ white plastic (shell of marker)				
	Dark purple/ white plastic (shell of marker)				





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 11 of 19

Test Item	DIBP	DPENP	DCHP	---
Method Detection Limit (%)	0.003	0.010	0.010	---
16 CFR Part 1307 & Cal. Prop 65 Limits (%)	0.1	0.1	0.1	---
Test Part Description	Result (%)			Comment
No.9 Dull black plastic (shell of all markers) Translucent plastic box Transparent plastic film with inaccessible coating	ND	ND	ND	Pass
No.10 White fiber (tip of all markers)	ND	ND	ND	Pass
No.11 Red ink (ink) Dark red ink (ink) Blue ink (ink)	ND	ND	ND	Pass
No.12 Sky-blue ink (ink) Dark blue ink (ink) Royal purple ink (ink)	ND	ND	ND	Pass
No.13 Green ink (ink) Dull green ink (ink) Dark green ink (ink)	ND	ND	ND	Pass
No.14 Orange ink (ink) Dull orange ink (ink) Army green ink (ink)	ND	ND	ND	Pass
No.15 Black ink (ink) Bright yellow ink (ink) Dull yellow ink (ink)	ND	ND	ND	Pass
No.16 Dark grey ink (ink) Grey ink (ink) Brown ink (ink)	ND	ND	ND	Pass
No.17 Dark brown ink (ink) Light brown ink (ink) Pink ink (ink)	ND	ND	ND	Pass
No.18 Dark pink ink (ink) Purple ink (ink) Dark purple ink (ink)	ND	ND	ND	Pass





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 12 of 19

Test Item	DIBP	DPENP	DCHP	---	
Method Detection Limit (%)	0.003	0.010	0.010	---	
16 CFR Part 1307 & Cal. Prop 65 Limits (%)	0.1	0.1	0.1	---	
Test Part Description	Result (%)			Comment	
No.19	Silvery coating on plastic (logo on all markers)	ND	ND	ND	Pass

- Note:
1. % = Percentage by weight (w/w)
  2. 0.1% = 1000ppm (mg/kg)
  3. ND = Not detected (<Method detection limit)

**F) SOR/2011-17 Mechanical and Physical Test**

As per Canada Consumer Product Safety Act, Toys Regulations SOR/2011-17.

The submitted samples were undergone the use and abuse tests in accordance with Canada Consumer Product Safety Act, Toys Regulations SOR/2011-17:

Test Item(s)	Parameter
Drop Test	4 drops×3.0 ft
Pull Test	10 lbf, 10 sec
Push Test	10 lbf, 10 sec

Clause	Description	Result
10	Plastic Edges	Pass

Note: Only applicable clause was shown.

**G) SOR/2011-17 Flammability Test of Toys**

As per Canada Consumer Product Safety Act, Toys Regulations SOR/2011-17 Section 21.

Clause	Description	Result
21	Celluloid or Cellulose Nitrate	Pass

Note: Only applicable clause was shown.





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 13 of 19

**H) SOR/2011-17 Heavy Metals Content in Surface Coatings**

With reference to SOR/2011-17, section 23.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item		Total		Soluble				---	
		Pb	Hg	Cd	As	Sb	Se	Ba	---
Method Detection Limit (mg/kg)		2	2	5	2	2	5	5	---
Permissible Limit (mg/kg)		90	ND	1000	1000	1000	1000	1000	---
Test Part Description		Result (mg/kg)							Comment
No.1	Silvery coating on plastic (logo on all markers)	ND	ND	ND	8.2	ND	ND	ND	Pass

- Note: 1. mg/kg = Milligram per kilogram = ppm  
 2. ND = Not detected (<Method detection limit)

**I) SOR/2014-254 Mercury Content**

With reference to SOR/2014-254.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item		Mercury (Hg)	---
Method Detection Limit (mg/kg)		2	---
Permissible Limit (mg/kg)		1000	---
Test Part Description		Result (mg/kg)	Comment
No.1	Red/ white plastic (shell of marker) Dark red/ white plastic (shell of marker) Blue/ white plastic (shell of marker)	ND	Pass
No.2	Sky-blue/ white plastic (shell of marker) Dark blue/ white plastic (shell of marker) Royal purple/ white plastic (shell of marker)	ND	Pass
No.3	Green plastic/ white (shell of marker) Dull green/ white plastic (shell of marker) Dark green/ white plastic (shell of marker)	ND	Pass
No.4	Orange plastic/ white (shell of marker) Dull orange/ white plastic (shell of marker) Army green/ white plastic (shell of marker)	ND	Pass





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 14 of 19

Test Item		Mercury (Hg)	---
Method Detection Limit (mg/kg)		2	---
Permissible Limit (mg/kg)		1000	---
Test Part Description		Result (mg/kg)	Comment
No.5	Black plastic/ white (shell of marker) Bright yellow/ white plastic (shell of marker) Dull yellow/ white plastic (shell of marker)	ND	Pass
No.6	Dark grey/ white plastic (shell of marker) Grey/ white plastic (shell of marker) Brown/ white plastic (shell of marker)	ND	Pass
No.7	Dark brown/ white plastic (shell of marker) Light brown/ white plastic (shell of marker) Pink plastic/ white (shell of marker)	ND	Pass
No.8	Dark pink/ white plastic (shell of marker) Purple/ white plastic (shell of marker) Dark purple/ white plastic (shell of marker)	ND	Pass
No.9	Dull black plastic (shell of all markers) Translucent plastic box Transparent plastic film with inaccessible coating	ND	Pass
No.10	White fiber (tip of all markers)	ND	Pass
No.11	Red ink (ink) Dark red ink (ink) Blue ink (ink)	ND	Pass
No.12	Sky-blue ink (ink) Dark blue ink (ink) Royal purple ink (ink)	ND	Pass
No.13	Green ink (ink) Dull green ink (ink) Dark green ink (ink)	ND	Pass
No.14	Orange ink (ink) Dull orange ink (ink) Army green ink (ink)	ND	Pass





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 15 of 19

Test Item		Mercury (Hg)	---
Method Detection Limit (mg/kg)		2	---
Permissible Limit (mg/kg)		1000	---
Test Part Description		Result (mg/kg)	Comment
No.15	Black ink (ink)	ND	Pass
	Bright yellow ink (ink)		
	Dull yellow ink (ink)		
No.16	Dark grey ink (ink)	ND	Pass
	Grey ink (ink)		
	Brown ink (ink)		
No.17	Dark brown ink (ink)	ND	Pass
	Light brown ink (ink)		
	Pink ink (ink)		
No.18	Dark pink ink (ink)	ND	Pass
	Purple ink (ink)		
	Dark purple ink (ink)		

- Note: 1. mg/kg = Milligram per kilogram = ppm  
 2. ND = Not detected (<Method detection limit)

**J) SOR/2016-188 Phthalates Content**

With reference to SOR/2016-188, analysis was performed by Gas Chromatography/Mass Spectrometry (GC-MS).

Test Item		DBP	BBP	DEHP	DINP	DNOP	DIDP	---
Method Detection Limit (%)		0.003	0.003	0.003	0.010	0.003	0.010	---
Permissible Limit (%)		0.1	0.1	0.1	0.1	0.1	0.1	---
Test Part Description		Result (%)						Comment
No.1	Red/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
	Dark red/ white plastic (shell of marker)							
	Blue/ white plastic (shell of marker)							
No.2	Sky-blue/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
	Dark blue/ white plastic (shell of marker)							
	Royal purple/ white plastic (shell of marker)							





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 16 of 19

Test Item	DBP	BBP	DEHP	DINP	DNOP	DIDP	---
Method Detection Limit (%)	0.003	0.003	0.003	0.010	0.003	0.010	---
Permissible Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	---
Test Part Description	Result (%)						Comment
No.3 Green plastic/ white (shell of marker) Dull green/ white plastic (shell of marker) Dark green/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
No.4 Orange plastic/ white (shell of marker) Dull orange/ white plastic (shell of marker) Army green/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
No.5 Black plastic/ white (shell of marker) Bright yellow/ white plastic (shell of marker) Dull yellow/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
No.6 Dark grey/ white plastic (shell of marker) Grey/ white plastic (shell of marker) Brown/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
No.7 Dark brown/ white plastic (shell of marker) Light brown/ white plastic (shell of marker) Pink plastic/ white (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
No.8 Dark pink/ white plastic (shell of marker) Purple/ white plastic (shell of marker) Dark purple/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass







**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 17 of 19

Test Item	DBP	BBP	DEHP	DINP	DNOP	DIDP	---
Method Detection Limit (%)	0.003	0.003	0.003	0.010	0.003	0.010	---
Permissible Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	---
Test Part Description	Result (%)						Comment
No.9 Dull black plastic (shell of all markers) Translucent plastic box Transparent plastic film with inaccessible coating	ND	ND	ND	ND	ND	ND	Pass
No.10 White fiber (tip of all markers)	ND	ND	ND	ND	ND	ND	Pass
No.11 Red ink (ink) Dark red ink (ink) Blue ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.12 Sky-blue ink (ink) Dark blue ink (ink) Royal purple ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.13 Green ink (ink) Dull green ink (ink) Dark green ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.14 Orange ink (ink) Dull orange ink (ink) Army green ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.15 Black ink (ink) Bright yellow ink (ink) Dull yellow ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.16 Dark grey ink (ink) Grey ink (ink) Brown ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.17 Dark brown ink (ink) Light brown ink (ink) Pink ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.18 Dark pink ink (ink) Purple ink (ink) Dark purple ink (ink)	ND	ND	ND	ND	ND	ND	Pass





**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 18 of 19

Test Item	DBP	BBP	DEHP	DINP	DNOP	DIDP	---
Method Detection Limit (%)	0.003	0.003	0.003	0.010	0.003	0.010	---
Permissible Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	---
Test Part Description	Result (%)						Comment
No.19 Silvery coating on plastic (logo on all markers)	ND	ND	ND	ND	ND	ND	Pass

- Note:
1. % = Percentage by weight (w/w)
  2. 0.1% = 1000ppm (mg/kg)
  3. ND = Not detected (<Method detection limit)

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The test result of the report is related to the item being tested only. UTL does not verify or be liable to any declare or declaration if the particular/specific item is not tested.

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**Test Report**

ID: RA0020516(3)R1

Date: 2019-5-3

Page 19 of 19

Sample Photo(s):



\*\*\* End of Report \*\*\*