

Dated: 2019-06-05



Applicant : Spector & Co

Address :

Sample Description : Plastic cap-off 4in1 ballpoint/stylus/hig hlighter/phone stand

Product Type / End Use : WRITING INSTRUMENT

Item No. : G1288

Style No. : MEMPHIS

Supplier : USX009

Country of Origin : China

Exported to : Canada & U.S.A.

Test Sample Receipt Date, Location : 2019-05-17, 2019-05-29, Shenzhen

Test Period, Location : From 2019-05-17 to 2019-06-04, Shenzhen

Test Result(s) : Refer to Section 3

Dated: 2019-06-05



Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
1.	US California Proposition 65 - Total Cadmium Content Test - Substrate	Pass*
'-	Materials	Fa55
2.	US California Proposition 65 - Total Cadmium Content Test - Paint and	Pass*
Z .	Similar Surface-Coating Materials	F a 5 5
3.	US California Proposition 65 - Total Lead Content Test - Substrate	Pass*
J.	Materials	F a55
4.	US California Proposition 65 - Total Lead Content Test - Paint and Similar	Pass*
٦.	Surface-Coating Materials	1 055
5.	Canadian Consumer Products Containing Lead Regulations SOR/2018-	Pass
J.	83 - Total Lead Content Test	1 455
6.	Canadian Surface Coating Materials Regulations SOR/2016-193 - Total	Pass
0.	Lead Content Test	1 455
7.	Phthalates Content	Pass*
8.	US California Proposition 65 - Phthalates Content	Pass*
9.	U.S. CFR Title 16 Part 1307 - Phthalates Content	Pass
10.	Tungsten Content Test	Report as is

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) "*" denotes the conclusion was drawn according to the client's specification.
- (4) The test item and samples were specified by the client

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Prepared by:

Reviewed by:

<Cara Xiang>

<Senior Project Coordinator>

<Ken Chen>

<Project Manager>

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

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17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

No extract, abridgment or abstraction from a test report may be published or used to advertise a product without the written consent of the Director of TUV SUD Certification and Testing (China) Co., Ltd. Shenzhen Branch. The results contained herein apply only to the particular sample tested and to the specific test carried out and not to samples of the current production line.



Dated: 2019-06-05



1. Description of the Test Sample:



2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Yellowish green coating (Barrel & on top of pen)	10° 20° 21° 22° 23° 24° 25° 26° 27° 28° 29° 30° 31° 32° 33° 43° 53° 33° 30° 40° 63° 43° 43° 43° 43° 43° 43° 43° 43° 43° 4
T2	002	Black soft plastic (Top of pen)	
Т3	003	Matt black coating (Top, clip & cover of pen)	
T4	004	Black plastic (Top, clip & cover of pen)	

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Dated: 2019-06-05



T. No.	Sample No.	Colour and Description	Photograph
Т5	005	Silver coating (Barrel of pen)	11111111
Т6	006	Matt black plastic (Barrel of pen)	23 24 25 26 27 28 29 30 31 32 33 34 35 30 37 38 39 40 41 42 43 44 45 46 47 48 49 50
Т7	007	Flat black plastic (Collar of pen)	
Т8	008	Grey plastic (Core of pen)	91/9031010119
Т9	009	Blue ink (Pen ink)	
T10	010	Silvery metal (Tip of pen)	
T11	011	Silvery metal (Ball of pen)	

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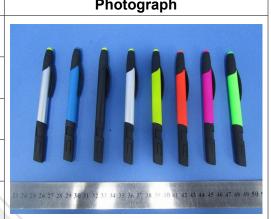
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Dated: 2019-06-05



T. No.	Sample No.	Colour and Description	Photograph
T12	012	Blue coating (Barrel & on top of pen)	
T13	013	Pearl white coating (Barrel of pen)	
T14	014	Orange coating (Barrel & on top of pen)	
T15	015	Hot pink coating (Barrel & on top of pen)	11111111
T16	016	Green coating (Barrel & on top of pen)	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 4) 42 43 44 45 46 47 48 49 50 5





Dated: 2019-06-05



3. Test Result

3.1 US California Proposition 65 - Total Cadmium Content Test - Substrate Materials

Test method: Acid digestion/Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	Results [mg/kg]			Client's
Test item	Sample 002	Sample 004+006+007	Sample 008	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

	Results [Results [mg/kg]		
Test item	Sample 010	Sample 011	Specification [mg/kg]	
Cadmium	N.D.	N.D.	<75	
Conclusion	Pass	Pass	-	

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

3.2 US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	Results [mg/kg]			Client's
Test Item	Sample 001+003+005	Sample 009	Sample 012+013+014	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

	Results [mg/kg]	Client's
Test Item	Sample	Specification
	015+016	[mg/kg]
Cadmium	N.D.	<75
Conclusion	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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3.3 US California Proposition 65 - Total Lead Content Test - Substrate Materials

Test method: Acid digestion or Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	Results [mg/kg]			Client's
Test Item	Sample 002	Sample 004+006+007	Sample 008	Specification [mg/kg]
Lead	N.D.	N.D.	N.D.	<100
Conclusion	Pass	Pass	Pass	-

/	Results	Results [mg/kg]		
Test Item	Sample	Sample	Specification	
	010	011	[mg/kg]	
Lead	19.9	61.1	<100	
Conclusion	Pass	Pass	-	

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating **Materials**

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	F	Client's		
Test Item	Sample	Sample	Sample	Specification
	001+003+005	009	012+013+014	[mg/kg]
Lead	N.D.	N.D.	N.D.	<90
Conclusion	Pass	Pass	Pass	-

	Results [mg/kg]	Client's
Test Item	Sample	Specification
	015+016	[mg/kg]
Lead	14.9	<90
Conclusion	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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3.5 Total Lead

Consumer Products Containing Lead Regulations SOR/2018-83 Acid digestion / Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

[Reporting Limit: 10.0mg/kg]

	Result [mg/kg]					
Analyte	Sample	Sample	Sample			
	001+003+005	002	004+006+007			
Lead	N.D.	N.D.	N.D.			
Limit		<90				
Conclusion	Pass	Pass	Pass			

	/	Result [mg/kg]				
Analyte	Sample	Sample	Sample			
	008	009	010			
Lead	N.D.	N.D.	19.9			
Limit		<90				
Conclusion	Pass	Pass	Pass			

		Result [mg/kg]				
Analyte	Sample 011	Sample 012+013+014	Sample 015+016			
Lead	61.1	N.D.	14.9			
Limit		<90				
Conclusion	Pass	Pass	Pass			

Note 1. "mg/kg" denotes milligram per kilogram

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

Dated: 2019-06-05



3.6 Total Lead

Surface Coating Materials Regulations SOR/2016-193 Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

		Result [mg/kg]				
Analyte	Sample 001+003+005	Sample 012+013+014				
Lead	N.D.	N.D.	N.D.			
Limit		<90				
Conclusion	Pass	Pass	Pass			

	Result [mg/kg]
Analyte	Sample
	015+016
Lead	14.9
Limit	<90
Conclusion	Pass

Note 1. "mg/kg" denotes milligram per kilogram

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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3.7 Phthalates Content

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		Results [%]			Client's
Test Items	CAS No.	Sample 001+003 +005	Sample 002	Sample 004+006 +007	Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

Dated: 2019-06-05



3.7 Phthalates Content

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		F	Results [%	[]	Client's
Test Items	CAS No.	Sample 008	Sample 009	Sample 012+013 +014	Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion	1	Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

Dated: 2019-06-05



Phthalates Content 3.7

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		Results [%]	Client's
Test Items	CAS No.	Sample 015+016	Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	<0.1
Conclusion		Pass	-

Note 1. "%" denotes percentage by weight

3. "N.D." denotes Not Detected with Detection Limit 0.005%

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^{2. &}quot;<" denotes less than

Dated: 2019-06-05



3.8 **US California Proposition 65 - Phthalates Content**

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		F	Results [%	b]	Client's	
Test Items	CAS No.	Sample 001+003 +005	Sample 002	Sample 004+006 +007	Specification [%]	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1	
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1	
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1	
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1	
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	N.D.	N.D.	<0.1	
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1	
Conclusion	GIII	Pass	Pass	Pass	-	

		F	Results [%	Client's	
Test Items	CAS No.	Sample 008	Sample 009	Sample 012+013 +014	Specification [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

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Dated: 2019-06-05



3.8 US California Proposition 65 - Phthalates Content

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

Test Items	CAS No.	Results [%] Sample 015+016	Client's Specification [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
Conclusion		Pass	-

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

Dated: 2019-06-05



3.9 U.S. CFR Title 16 Part 1307 - Phthalates Content

CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005%]

		Results [%]			
Phthalates	CAS No.	Sample 001+003 +005	Sample 002	Sample 004+006 +007	Limit [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

^{2. &}quot;<" denotes less than

^{3. &}quot;N.D." denotes Not Detected with Detection Limit 0.005%

Dated: 2019-06-05



3.9 U.S. CFR Title 16 Part 1307 - Phthalates Content

CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005%]

	CAS No.	Results [%]			
Phthalates		Sample 008	Sample 009	Sample 012+013 +014	Limit [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

^{2. &}quot;<" denotes less than

^{3. &}quot;N.D." denotes Not Detected with Detection Limit 0.005%

Dated: 2019-06-05



3.9 U.S. CFR Title 16 Part 1307 - Phthalates Content

CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%] Sample 015+016	Limit [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	<0.1
Conclusion		Pass	-

Note 1. "%" denotes percentage by weight

^{2. &}quot;<" denotes less than

^{3. &}quot;N.D." denotes Not Detected with Detection Limit 0.005%

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3.10 Tungsten Content Test

Test method: EPA 3050B:1996, analyzed by Inductively Coupled Plasma Optical Emission

Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]	Client's
	Sample 010	Specification [mg/kg]
Tungsten	N.D.	-
Conclusion	Report as is	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

-- END OF TEST REPORT--