

Dated: 2019-10-18



Applicant : Spector & Co

Address : /

Sample Description : Plastic twist-action ballpoint/stylus 2in1

Product Type / End Use : WRITING ISTRUMENT

Item No. : 1135

PO / Order No. : N/A

Style No. : KILE

Supplier : USS049

Country of Origin : China

Exported to : Canada & U.S.A.

Test Sample Receipt Date, Location : 2019-09-06, 2019-09-18, Shenzhen

Test Period, Location : From 2019-09-09 to 2019-09-25, Shenzhen

Test Result(s) : Refer to Section 3

Dated: 2019-10-18



Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
1.	US California Proposition 65 - Total Cadmium Content Test - Substrate	Pass*
1.	Materials	F a55
2.	US California Proposition 65 - Total Cadmium Content Test - Paint and	Pass*
۷.	Similar Surface-Coating Materials	1 033
3.	US California Proposition 65 - Total Lead Content Test - Substrate	Pass*
J.	Materials	1 055
4.	US California Proposition 65 - Total Lead Content Test - Paint and Similar	Pass*
	Surface-Coating Materials	1 433
5.	Canadian Consumer Products Containing Lead Regulations SOR/2018-	Pass
	83 - Total Lead Content Test	1 433
6.	Canadian Surface Coating Materials Regulations SOR/2016-193 –	Pass
0.	Total Lead Content Test	1 433
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
11.	Canadian Surface Coating Materials Regulations SOR/2016-193 -	Pass
' ' '	Total Mercury Content Test	r ass

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
- (5) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expended uncertainty for "pass", "Fail" and "Inconclusive" is 95%.

Dated: 2019-10-18



TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch TÜV SÜD Group

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Dated: 2019-10-18



1. Description of the Test Sample:

Sample Description	Plastic twist-action ballpoint/stylus 2in1
	i ,

2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Dark grey plastic w/ shiny golden coating (Pen body)	
T2	002	Black soft plastic (End of pen)	
Т3	003	Matt black soft plastic (Handle of pen)	
T4	004	Black plastic (Pen body)	
Т5	005	Silvery metal (Ring)	
Т6	006	Silvery metal plating (Top)	
Т7	007	Silvery metal (Spring)	
Т8	008	Silvery metal (Tip)	
Т9	009	Silvery metal (Ball of tip)	234567895012345678960123456789701234567
T10	010	Transparent plastic (Tube)	
T11	011	Dark grey plastic w/ shiny red coating (Pen body)	
T12	012	Dark grey plastic w/ shiny green coating (Pen body)	
T13	013	Dark grey plastic w/ shiny grey coating (Pen body)	
T14	014	Dark grey plastic w/ shiny blue coating (Pen body)	

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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]

	I	Client's		
Test item	Sample 002+003	Sample 004+010	Sample 005	Specification [mg/kg]
Cadmium	N.D.	14.2	N.D.	<75
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]			
Test item	Sample 006	Sample 007	Sample 008	Specification [mg/kg]	
Cadmium	N.D.	N.D.	N.D.	<75	
Conclusion	Pass	Pass	Pass	-	

	Results [mg/kg]	Client's	
Test item	Sample	Specification [mg/kg]	
	009		
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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Dated: 2019-10-18



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]

	I	Client's		
Test Item	Sample 001	Sample 011	Sample 012	Specification [mg/kg]
Cadmium	21.5	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

		Results	Client's		
Test Item		Sample 013	Sample 014	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

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Dated: 2019-10-18



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]

	ı	Client's		
Test Item	Sample 002+003	Sample 004+010	Sample 005	Specification [mg/kg]
Lead	N.D.	N.D.	49.5	<100
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]		
Test Item	Sample 006	Sample 007	Sample 008	Specification [mg/kg]
Lead	33.1	N.D.	76.6	<100
Conclusion	Pass	Pass	Pass	-

	Results [mg/kg]	Client's	
Test Item	Sample	Specification	
	009	[mg/kg]	
Lead	N.D.	<100	
Conclusion	Pass	-	

Note:

- "mg/kg" denotes milligram per kilogram
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3.4 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]

	I	Client's		
Test Item	Sample 001	Sample 011	Sample 012	Specification [mg/kg]
Lead	N.D.	40.7	33.2	<90
Conclusion	Pass	Pass	Pass	-

	Results	Results [mg/kg]		
Test Item	Sample 013	Sample 014	Specification [mg/kg]	
Lead	78.7	64.5	<90	
Conclusion	Pass	Pass	-	

Note:

- "mg/kg" denotes milligram per kilogram

- "<" denotes less than

- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

Dated: 2019-10-18



3.5 Total Lead Content Test

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	002+003	004+010		
Lead	N.D.	N.D.	N.D.		
Limit		<90			
Conclusion	Pass	Pass	Pass		

	,	Result [mg/kg]				
Analyte	Sample	Sample	Sample			
	005	006	007			
Lead	49.5	33.1	N.D.			
Limit		<90				
Conclusion	Pass	Pass	Pass			

	Result [mg/kg]				
Analyte	Sample 008	Sample 011			
Lead	76.6	N.D.	40.7		
Limit	<90				
Conclusion	Pass	Pass	Pass		

	Result [mg/kg]				
Analyte	Sample	Sample	Sample		
	012	013	014		
Lead	33.2	78.7	64.5		
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: 2019-10-18



3.6 Total Lead Content Test

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	Sample	Sample		
	001	011	012		
Lead	N.D.	40.7	33.2		
Limit	<90				
Conclusion	Pass	Pass	Pass		

		Result	[mg/kg]
Analyte		Sample	Sample
		013	014
Lead	/	78.7	64.5
Limit		<9	90
Conclusion		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: 2019-10-18



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 [%	o]	Client's
Test Items	CAS No.	Sample 001+011 +012	Sample 002+003	Sample 004+010	Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	0.008	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%

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Dated: 2019-10-18



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%]

Test Items	CAS No.	Results [%] Sample 013+014	Client's Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	0.011	<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

2. "<" denotes less than

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

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US California Proposition 65 - Phthalates Content 3.8

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+011 +012	Sample 002+003	Sample 004+010	Specification [%]	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1	
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	0.008	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	-	

		Results [%]	Client's
Test Items	CAS No.	Sample 013+014	Specification [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	0.011	<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%

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Dated: 2019-10-18



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%]

		F	Results [%	.]	
Phthalates	CAS No.	Sample 001+011 +012	Sample 002+003	Sample 004+010	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	0.008	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%

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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 013+014	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	0.011	<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%

Dated: 2019-10-18



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]

	Results [mg/kg]	Client's
Test Item	Sample 005	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

3.11 Total Mercury Content Test

Surface Coating Materials Regulations SOR/2016-193
Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10mg/kg]

	Results [mg/kg]			Limit
Test Item	Sample 001	Sample 011	Sample 012	[mg/kg]
Mercury	N.D.	N.D.	N.D.	<10
Conclusion	Pass	Pass	Pass	-

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	Results	Limit	
Test Item	Sample 013	Sample 014	[mg/kg]
Mercury	N.D.	N.D.	<10
Conclusion	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

-- END OF TEST REPORT--