

Applicant :	SPECTOR
Address	/
Sample Description :	plastic push-action ballpoint pen
Item No.	G1274
Style No.	RYAN
Supplier :	USX009
Country of Origin :	China
Exported to :	Canada & U.S.A.
Test Sample Receipt Date, Location	2019-09-19, Shenzhen
Test Period, Location	From 2019-09-23 to 2019-09-29, Shenzhen
Test Result(s)	Refer to Section 3

Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
1.	US California Proposition 65 - Total Cadmium Content Test - Substrate	Pass*
1.	Materials	F 855
2.	US California Proposition 65 - Total Cadmium Content Test - Paint and	Pass*
۷.	Similar Surface-Coating Materials	1 000
3.	US California Proposition 65 - Total Lead Content Test - Substrate	Pass*
5.	Materials	1 833
4.	US California Proposition 65 - Total Lead Content Test - Paint and Similar	Pass*
т.	Surface-Coating Materials	1 000
5.	Canadian Consumer Products Containing Lead Regulations SOR/2018-	Pass
<u>J</u> .	83 - Total Lead Content Test	1 435
6.	Canadian Surface Coating Materials Regulations SOR/2016-193 –	Pass
0.	Total Lead Content Test	1 035
7.	Phthalates Content	Pass*
8.	US California Proposition 65 - Phthalates Content	Pass*
9.	U.S. CFR Title 16 Part 1307 - Phthalates Content	Pass

Laboratory:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Phone : +86 755 8828 6998 Fax: +86 755 8828 5299 E-mail: toys_hardline@tuv-sud.hk Web : http://www.tuv-sud.cn Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park, Nantou Checkpoint Road 2, 518052, P. R. China Page 1 of 1

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Test Report No.: 68.431.19.04687.01 Dated: 2019-11-08



No.	Test Item(s)	Conclusion
10.	Tungsten Content Test	Report as is
11	Canadian Surface Coating Materials Regulations SOR/2016-193 -	Pass
11.	Total Mercury Content Test	rdss

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%.

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

Prepared by:

<Cara Xiang> <Senior Project Coordinator> Reviewed by:

<Ken Chen> <Project Manager>

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1. Description of the Test Sample:

Sample Description	plastic push-action ballpoint pen

2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Silvery plated metal (Button & collar)	
T2	002	Black plastic (Holder of button)	
Т3	003	Red plastic (Barrel)	
T4	004	Black soft plastic (Handle)	
T5	005	Silvery metal (Clip)	<i>4 5 6 7 8 9 6</i> 01 2 3 4 5 6 7 8 9 701 2 3 4 5 6 7 8 9 801 2 3 4 5 6 7 8 9 701 2 3 4 5 6 7 8 9 801 2 3 4 5 6 7 8 9
T6	006	Grey plastic (Core)	
T7	007	Blue ink (Pen ink)	
Т8	008	Silvery metal (Spring)	HOLDER COCCE
Т9	009	Silvery metal (Tip)	
T10	010	Silvery metal (Ball of tip)	
T11	011	Purple plastic (Barrel)	
T12	012	Green plastic (Barrel)	
T13	013	Yellow plastic (Barrel)	
T14	014	White plastic (Barrel)	
T15	015	Bright black plastic (Barrel)	
T16	016	Orange plastic (Barrel)	
T17	017	Blue plastic (Barrel)	<i>4 5 6 7 8 9 60 1 2 3 4 5 6 7 8 9 70 1 2 3 4 5 6 7 8 9 60 1 2 3 4 5 6 7 8 9 70 1 2 3 4 5 6 7 8 9 60 1 2 3 4 5 6 7 8 9 70 1 2 3 4 5 6 7 8 9 60 1 2 3 4 5 6 7 8 9 70 1 2 3 4 5 8 9 70 1 2 3 4 5 6 7 8 9 70 1 2 3 4 5 8 9 70 1 2 3 4 5 8 9 70 1 2 3 4 5 8 9 70 1 2 3 4 5 8 9 70 1 2 3 4 5 8 9 70 1 2 3 4 5 8 9 70 1 2 3 4 5 8 9 70 1 2 3 7 8 9 70 1 2 3 7 8 70 1 2 3 7 8 9 70 1 2 3 7 8 9 70 1 2 3 7 8 9 70 1 2 3 7 8 7 8 7</i>

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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]

	Results [mg/kg]			Client's
Test item	Sample 001	Sample 002+003+006	Sample 004	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]		
Test item	Sample 005	Sample 008	Sample 009	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

Test item	Results [mg/kg]			Client's
	Sample	Sample	Sample	Specification
	010	011+012+013	014+015	[mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

	Results [mg/kg]	Client's
Test item	Sample	Specification
	016+017	[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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3.2 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	Specification
	007	[mg/kg]
Cadmium	N.D.	<75
Conclusion	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than</p>
- "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 001	Sample 002+003+006	Sample 004	Specification [mg/kg]
Lead	N.D.	N.D.	N.D.	<100
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]		
Test Item	Sample	Sample	Sample	Specification
	005	008	009	[mg/kg]
Lead	N.D.	N.D.	25.7	<100
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]				
Test Item	Sample	Sample	Sample	Specification		
	010	011+012+013	014+015	[mg/kg]		
Lead	N.D.	N.D.	N.D.	<100		
Conclusion	Pass	Pass	Pass	-		

Test Item	Results [mg/kg] Sample 016+017	Client's Specification [mg/kg]
Lead	N.D.	<100
Conclusion	Pass	-

Note:

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

Laboratory:

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

Phone : +86 755 8828 6998 Fax: +86 755 8828 5299 E-mail: toys_hardline@tuv-sud.hk Web : http://www.tuv-sud.cn

Regd. Office:

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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]

	Results [mg/kg]	Client's
Test Item	Sample	Specification
	007	[mg/kg]
Lead	N.D.	<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 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 001	Sample 002+003+006	Sample 004			
Lead	N.D.	N.D.	N.D.			
Limit	<90					
Conclusion	Pass	Pass	Pass			

	Result [mg/kg]				
Analyte	Sample 005	Sample 007	Sample 008		
Lead	N.D.	N.D.	N.D.		
Limit		<90			
Conclusion	Pass	Pass	Pass		

		Result [mg/kg]					
Analyte	Sample 009	Sample 010	Sample 011+012+013				
Lead	25.7	N.D.	N.D.				
Limit		<90					
Conclusion	Pass	Pass	Pass				

	Result [mg/kg]			
Analyte	Sample	Sample		
	014+015	016+017		
Lead	N.D.	N.D.		
Limit	<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

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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
	007
Lead	N.D.
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%]

	CAS No.	F	Results [%	b]	Client's
Test Items		Sample 002+003 +006	Sample 004	Sample 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%

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Phone : +86 755 8828 6998 Fax: +86 755 8828 5299 E-mail: toys_hardline@tuv-sud.hk Web : http://www.tuv-sud.cn Regd. Office:

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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%]

	CAS No.	Results [%]			Client's
Test Items		Sample 011+012 +013	Sample 014+015	Sample 016+017	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
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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%]

		Results [%]			Client's	
Test Items	CAS No.	Sample 002+003 +006	Sample 004	Sample 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		Pass	Pass	Pass	-	

		F	Results [%]	Client's	
Test Items	CAS No.	Sample 011+012 +013	Sample 014+015	Sample 016+017	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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Shenzhen Branch

Phone : +86 755 8828 6998 Fax: +86 755 8828 5299 E-mail: toys_hardline@tuv-sud.hk Web : http://www.tuv-sud.cn Regd. Office:

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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%]

		Results [%]			
Phthalates	CAS No.	Sample 002+003 +006	Sample 004	Sample 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. "<" denotes less than

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

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Phone : +86 755 8828 6998 Fax: +86 755 8828 5299 E-mail: toys_hardline@tuv-sud.hk Web : http://www.tuv-sud.cn Regd. Office:

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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%]

		Results [%]			
Phthalates	CAS No.	Sample 011+012 +013	Sample 014+015	Sample 016+017	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. "<" denotes less than

3. "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 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]

Test Item	Results [mg/kg] Sample 007	Limit [mg/kg]
Mercury	N.D.	<10
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

-- END OF TEST REPORT--

Laboratory:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Phone : +86 755 8828 6998 Fax: +86 755 8828 5299 E-mail: toys_hardline@tuv-sud.hk Web : http://www.tuv-sud.cn Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park, Nantou Checkpoint Road 2, 518052, P. R. China Page 15 of 15

