

Test Report

No.: 68.431.22.4579.01

Date: 2022-11-28



Greater China

Applicant: Spector & CO
Address: /
Product Name: 400 ML / 13.5 OZ STAINLESS STEEL TUMBLER
End Use: DRINKWARE
Item No.: DW312
Style No.: TRENDSETTER MINI 360
Supplier: USS149
Country of Origin: CHINA
Country of Destination: CANADA & U.S.A.
Receipt Date of Sample: 2022-10-31
Date of Testing: From 2022-10-31 to 2022-11-25
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. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials	Pass*
2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials	Pass*
3. US California Proposition 65 - Total lead Content Test - Paint and Similar Surface-Coating Materials	Pass*
4. US California Proposition 65 - Total Lead Content Test - Substrate Materials	Pass*
5. Phthalates Content (11P)	Pass*
6. Tungsten Content Test	Report As Is
7. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test	Pass
8. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Lead Content Test	Pass
9. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test	Pass
10. Total Nickel Content Test	Report As Is
11. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)	Pass
12. US California Proposition 65 - Phthalates Content (6P)	Pass*
13. FDA CFR Title 21 Part 177.1210	Pass
14. FDA CFR Title 21 Part 177.1520	Pass
15. Total Chromium Content	Pass

Remarks: 1. MDL = Method Detection Limit
2. N.D. = Not Detected (<MDL)
3. ≤ Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. NA=Not Applicable

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Lab 1 - Chemical testing and part of electrical testing Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & Mechanical Test: Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China



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

Prepared by:

Authorized by:

Jojo Zhao



Steven Shu

Jojo Zhao
Project Coordinator

Shu, Steven
Senior Project Coordinator

Note:

- (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.
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For further details, please see "Testing and certification regulation", chapter A-3.4
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- (2) The results relate only to the Items tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:
- "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.
- "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.
- (5) The test item and sample were specified by the client.
- (6) ""*"" denotes the conclusion was drawn according to the client's specification.

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Description of Tested Subject:

Sample	Description	Photo
A	Whole product	
001	Black PP-HO plastic (Lid)	
002	Matt-black ABS (Inner lid)	

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<p>003</p>	<p>Black silicone (Sealing ring)</p>	
<p>004</p>	<p>Bright brown coating (On body)</p>	
<p>005</p>	<p>Bright black coating (On body)</p>	
<p>006</p>	<p>Bright white coating (On body)</p>	

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007	Silver coating (On body)	
008	Milk white coating (Inner body)	
009	Silver stainless steel 201 (Outer body)	
010	Silver stainless steel 304 (Inner body)	
011	Matt-black silicone (Base)	
012	White silicone (Sealing ring)	

T. No	Sample	Description
T1	001	Black PP-HO plastic (Lid)
T2	002	Matt-black ABS (Inner lid)
T3	003	Black silicone (Sealing ring)
T4	004	Bright brown coating (On body)
T5	005	Bright black coating (On body)
T6	006	Bright white coating (On body)
T7	007	Silver coating (On body)
T8	008	Milk white coating (Inner body)

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T. No	Sample	Description
T9	009	Silver stainless steel 201 (Outer body)
T10	010	Silver stainless steel 304 (Inner body)
T11	011	Matt-black silicone (Base)
T12	012	White silicone (Sealing ring)



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Test Result(s):

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

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
004+005+006	mg/kg	10	75	N.D.	Pass
007+008	mg/kg	10	75	N.D.	Pass

2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001+002	mg/kg	10	75	N.D.	Pass
003+011+012	mg/kg	10	75	N.D.	Pass
009	mg/kg	10	75	N.D.	Pass
010	mg/kg	10	75	N.D.	Pass

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

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
004+005+006	mg/kg	10	90	N.D.	Pass
007+008	mg/kg	10	90	N.D.	Pass

4. US California Proposition 65 - Total Lead Content Test - Substrate Materials

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001+002	mg/kg	10	100	N.D.	Pass
003+011+012	mg/kg	10	100	N.D.	Pass
009	mg/kg	10	100	N.D.	Pass
010	mg/kg	10	100	N.D.	Pass

5. Phthalates Content (11P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Client's	Result(s)
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				Limit	001+002	003+011+012
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					004+005+006	007+008
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
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Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

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6. Tungsten Content Test

Test with reference to acid digestion and determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test items	Unit	MDL	Limit	Result(s)
				009
Tungsten(W)	mg/kg	10.0	-	N.D.
Conclusion				Report As Is

7. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
004	mg/kg	10	10.0	N.D.	Pass
005	mg/kg	10	10.0	N.D.	Pass
006	mg/kg	10	10.0	N.D.	Pass
007	mg/kg	10	10.0	N.D.	Pass
008	mg/kg	10	10.0	N.D.	Pass

8. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Lead Content Test

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
004+005+006	mg/kg	10	90	N.D.	Pass
007+008	mg/kg	10	90	N.D.	Pass

9. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002	mg/kg	10	90	N.D.	Pass
003+011+012	mg/kg	10	90	N.D.	Pass
004+005+006	mg/kg	10	90	N.D.	Pass
007+008	mg/kg	10	90	N.D.	Pass
009	mg/kg	10	90	N.D.	Pass
010	mg/kg	10	90	N.D.	Pass

10. Total Nickel Content Test

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Test with reference to acid digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
009	mg/kg	5	-	11426.823	Report As Is
010	mg/kg	5	-	81073.376	Report As Is

11. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001+002	003+011+012
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					004+005+006	007+008
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.

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Conclusion	Pass	Pass
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12. US California Proposition 65 - Phthalates Content (6P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001+002	003+011+012
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					004+005+006	007+008
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

13. FDA CFR Title 21 Part 177.1210

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210

TEST ITEMS	TEST CONDITIONS	RESULT [ppm]	CFR Specification [ppm]
		SAMPLE 003	
Chloroform extractives in	Fill boiling water and	N.D.	50

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Distilled water	then cool to 100 °F		
Chloroform extractives in 8% Ethanol	Fill boiling 8% ethanol and then cool to 100 °F	N.D.	50
Chloroform extractives in N-heptane	120°F, 15 mins	24.2	50
Conclusion		Pass	-

14. FDA CFR Title 21 Part 177.1520

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1520

TEST ITEMS	RESULTS	CFR Specification [PP/PE Copolymer]
	SAMPLE 001	
Density [g/cc]	0.910	0.880 - 0.913
Melting Point Range [°C]	170/172	160 - 180
Maximum extractive in n-hexane after reflux for 2 hours [%]	N.D.	6.4
Maximum extractive in xylene after reflux for 2 hours at 25 °C [%]	3.10	9.8
Conclusion		-

Note:

1. “%” denotes percentage by weight
2. “g/cc” denotes gram per cubic centimeter
3. “<” denotes less than
4. “°C” denotes degree Celsius
5. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1520

15. Total Chromium Content

Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel

Test Method: Digested by acid and analyzed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

Analyte	Results [%]
	Sample 010
Total Chromium(Cr)	17.67
Limit	Not less than 16
Conclusion	
	Pass

Note:

- “%” denotes percentage by weight

-End of Test Report-

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