



Test Report

No.: T31920290707SC

Date: OCT 08, 2019

Page 1 of 9

BIC GRAPHIC
14421 MYERLAKE CIRCLE
CLEARWATER PINELLAS
FL 33760 UNITED STATES

The following samples were submitted and identified on behalf of the client as:

VIBRANT IRIDESCENT MUG - 11 OZ

SGS Case No.	:	CA319202813199
Item No.	:	46308
Test Request Form No.	:	3296_HK
Quantity Submitted	:	36 PCS OF 4 STYLES
Manufacturer Date	:	2019
Shipment Order No.	:	7085531
Country of Origin	:	CHINA
Country of Destination	:	CANADA, UNITED STATES
Sample Receiving Date	:	SEP 09, 2019
Test Performing Date	:	SEP 09 - 13, 2019

Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).

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Test Report

No.: T31920290707SC

Date: OCT 08, 2019

Page 2 of 9

Result Summary

Test Requested	Conclusion
1. US FDA CPG Sec. 545.400 and CPG Sec. 545.450 Pottery (Ceramics) – Leachable Lead and Cadmium	PASS
2. US SGCD and the Coalition for Safe Ceramicware (CSC) (Lip and Rim Area of Glass Tumblers Externally Decorated with Ceramic Glass Enamels) – Leachable Lead and Cadmium	PASS
3. Handle static loading strength (SGS In-House Method) (Selected Test part as specified by client)	PASS
4. Handle Impact Resistance Strength (SGS In-House Method) (Selected Test part as specified by client)	PASS
5. Dishwasher Resistance Test (In-house Method)	PASS

Conclusion	PASS	X
	FAIL	
	INCONCLUSIVE	

Signed for and on behalf of
SGS Hong Kong Ltd.

Che Wai Leuk, Jerry
Technical Manager

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Test Report

No.: T31920290707SC

Date: OCT 08, 2019

Page 3 of 9

Test Results :

1. US FDA CPG Sec. 545.400 and CPG Sec. 545.450 Pottery (Ceramics) – Leachable Lead and Cadmium

Method : With reference to AOAC 18th Ed. (2005) Section 973.32. Analysis was performed by Atomic Absorption Spectrometry.

Internal Surface (Cup and Mug)

Test Item	Black ceramic (Inside) w/ iridescent coating (Outside) (#1 - 46308 Black stoneware mug)						Reporting Limit	Limit
	1	2	3	4	5	6		
Released Lead (µg/mL)	ND	ND	ND	ND	ND	ND	0.1	0.5
Released Cadmium (µg/mL)	ND	ND	ND	ND	ND	ND	0.01	0.5
Volume of 4% Acetic acid (mL)	340	340	340	340	340	340	--	--
Internal Depth (mm)	86	86	86	86	86	86	--	--
Diameter (mm)	75	75	75	75	75	75	--	--
Comment	PASS						--	--

Test Item	Blue ceramic (Inside) w/ iridescent coating (Outside) (#2 - 46308 Blue stoneware mug)						Reporting Limit	Limit
	1	2	3	4	5	6		
Released Lead (µg/mL)	ND	ND	ND	ND	ND	ND	0.1	0.5
Released Cadmium (µg/mL)	ND	ND	ND	ND	ND	ND	0.01	0.5
Volume of 4% Acetic acid (mL)	340	340	340	340	340	340	--	--
Internal Depth (mm)	86	86	86	86	86	86	--	--
Diameter (mm)	75	75	75	75	75	75	--	--
Comment	PASS						--	--

Test Item	Red ceramic (Inside) w/ iridescent coating (Outside) (#3 - 46308 Coral stoneware mug)						Reporting Limit	Limit
	1	2	3	4	5	6		
Released Lead (µg/mL)	ND	ND	ND	ND	ND	ND	0.1	0.5
Released Cadmium (µg/mL)	ND	ND	ND	ND	ND	ND	0.01	0.5
Volume of 4% Acetic acid (mL)	340	340	340	340	340	340	--	--
Internal Depth (mm)	86	86	86	86	86	86	--	--
Diameter (mm)	75	75	75	75	75	75	--	--
Comment	PASS						--	--

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Test Report

No.: T31920290707SC

Date: OCT 08, 2019

Page 4 of 9

Test Item	White ceramic (Inside) w/ iridescent coating (Outside) (#4 - 46308 White stoneware mug)						Reporting Limit	Limit
	1	2	3	4	5	6		
Released Lead ($\mu\text{g/mL}$)	ND	ND	ND	ND	ND	ND	0.1	0.5
Released Cadmium ($\mu\text{g/mL}$)	ND	ND	ND	ND	ND	ND	0.01	0.5
Volume of 4% Acetic acid (mL)	340	340	340	340	340	340	--	--
Internal Depth (mm)	86	86	86	86	86	86	--	--
Diameter (mm)	75	75	75	75	75	75	--	--
Comment	PASS						--	--

Note : 1. $\mu\text{g/mL}$ = microgram per liter
2. ND = Not Detected

Remark : 1. Flatware – Articles which cannot be filled and articles which can be filled, the internal depth of which does not exceed 25 mm.
2. Small Hollowware – Articles which can be filled with the internal depth of which exceed 25 mm and capacity of less than 1.1 liter.
3. Large Hollowware – Articles which can be filled with the internal depth of which exceed 25 mm and capacity of 1.1 liter or more.

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Test Report

No.: T31920290707SC

Date: OCT 08, 2019

Page 5 of 9

2. US SGCD and the Coalition for Safe Ceramicware (CSC) (Lip and Rim Area of Glass Tumblers Externally Decorated with Ceramic Glass Enamels) & US California Proposition 65 (Superior Court of the State of California – County of San Francisco Case No. CGC-04-436729) – Leachable Lead and Cadmium

Lip and Rim Area

Method : With reference to ASTM C927-80 (reapproved 2014). Analysis was performed by Atomic Absorption Spectrometry.

Trial	Depth (mm)	Diameter (mm)	Extract Volume (mL)	Result (µg/mL)		Permissible Limit (µg/mL)		Comment
				1				
				Lead	Cadmium	Lead	Cadmium	
1	86	75	190	< 0.05	< 0.01	--	--	--
2	86	75	190	< 0.05	< 0.01	--	--	--
3	86	75	190	< 0.05	< 0.01	--	--	--
4	86	75	190	< 0.05	< 0.01	--	--	--
5	86	75	190	< 0.05	< 0.01	--	--	--
6	86	75	190	< 0.05	< 0.01	--	--	--
SGCD and CSC (Average of six):				< 0.05	< 0.01	4.0	0.4	PASS
California Proposition 65 (Average of six):				< 0.05	< 0.01	0.5	2.0	PASS

Trial	Depth (mm)	Diameter (mm)	Extract Volume (mL)	Result (µg/mL)		Permissible Limit (µg/mL)		Comment
				2				
				Lead	Cadmium	Lead	Cadmium	
1	86	75	190	< 0.05	< 0.01	--	--	--
2	86	75	190	< 0.05	< 0.01	--	--	--
3	86	75	190	< 0.05	< 0.01	--	--	--
4	86	75	190	< 0.05	< 0.01	--	--	--
5	86	75	190	< 0.05	< 0.01	--	--	--
6	86	75	190	< 0.05	< 0.01	--	--	--
SGCD and CSC (Average of six):				< 0.05	< 0.01	4.0	0.4	PASS
California Proposition 65 (Average of six):				< 0.05	< 0.01	0.5	2.0	PASS

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Test Report

No.: T31920290707SC

Date: OCT 08, 2019

Page 6 of 9

Trial	Depth (mm)	Diameter (mm)	Extract Volume (mL)	Result (µg/mL)		Permissible Limit (µg/mL)		Comment
				3				
				Lead	Cadmium	Lead	Cadmium	
1	86	75	190	< 0.05	< 0.01	--	--	--
2	86	75	190	< 0.05	< 0.01	--	--	--
3	86	75	190	< 0.05	< 0.01	--	--	--
4	86	75	190	< 0.05	< 0.01	--	--	--
5	86	75	190	< 0.05	< 0.01	--	--	--
6	86	75	190	< 0.05	< 0.01	--	--	--
SGCD and CSC (Average of six):				< 0.05	< 0.01	4.0	0.4	PASS
California Proposition 65 (Average of six):				< 0.05	< 0.01	0.5	2.0	PASS

Trial	Depth (mm)	Diameter (mm)	Extract Volume (mL)	Result (µg/mL)		Permissible Limit (µg/mL)		Comment
				4				
				Lead	Cadmium	Lead	Cadmium	
1	86	75	190	< 0.05	< 0.01	--	--	--
2	86	75	190	< 0.05	< 0.01	--	--	--
3	86	75	190	< 0.05	< 0.01	--	--	--
4	86	75	190	< 0.05	< 0.01	--	--	--
5	86	75	190	< 0.05	< 0.01	--	--	--
6	86	75	190	< 0.05	< 0.01	--	--	--
SGCD and CSC (Average of six):				< 0.05	< 0.01	4.0	0.4	PASS
California Proposition 65 (Average of six):				< 0.05	< 0.01	0.5	2.0	PASS

Sample Description :

1. Black ceramic (Inside) w/ iridescent coating (Outside) (#1 - 46308 Black stoneware mug) (Rim)
2. Blue ceramic (Inside) w/ iridescent coating (Outside) (#2 - 46308 Blue stoneware mug) (Rim)
3. Red ceramic (Inside) w/ iridescent coating (Outside) (#3 - 46308 Red stoneware mug) (Rim)
4. White ceramic (Inside) w/ iridescent coating (Outside) (#4 - 46308 White stoneware mug) (Rim)

Note : 1. < = less than
2. µg/mL = microgram per millilitre

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Test Report

No.: T31920290707SC

Date: OCT 08, 2019

Page 7 of 9

Test Results (Cont'd) :

Test Property	Test Method	Test Principle / Requirements	Result/Actual finding
3. Handle static loading strength	SGS In-House Method	Shall not detach or loosen after subjecting to loading equivalent to 2 times of its capacity of water for 1 hour.	PASS Blue ceramic (Inside) w/ iridescent coating (Outside) (#5 - 46308 stoneware handle) Tested Load: 677g
4. Handle Impact strength (Applicable to ceramic item)	SGS In-House Method	The rim and handle shall withstand impact of 0.05J impact energy without visible damage or chipping.	PASS (Blue ceramic (Inside) w/ iridescent coating (Outside) (#5 - 46308 stoneware handle) No breakage or damage occurred on tested samples at 0.05J

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Test Report

No.: T31920290707SC

Date: OCT 08, 2019

Page 8 of 9

Dishwasher Resistance Test (In-house Method)

Scope	: This test describes a procedure for the evaluation of products that claim to be dishwasher safe or have customer expectation of being dishwasher safe.
No. of Specimen	: 1 pc. Remains as control sample.
No. of Cycles	: 10 cycles
Testing Procedures	: <ol style="list-style-type: none">1) Visually inspect sample and record any cosmetic defects.2) Washing the specimen 10 cycles continuously and dries it.3) After specimen is dry for 30 minutes, examine / inspect from a distance of 30cm and record any observations or differences from the retained sample.
Cycle Time	: Normal Wash – 90 Minutes.
Cycle Water Temperature	: Main Wash – 140 Degree F. (60 Degree C.) Rinse – 130 Degree F. (54 Degree C.)
Detergent Brand	: Cascade (Made in USA) in pH of 9 value.
Acceptance Level	: No discoloration, deformation, staining of water (water mark), or substantial deterioration of item's appearance and or function.
Test Result	: PASS. No noticeable change after 10 dishwasher cycles.

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Photo Appendix



*** End of Report ***

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