

Test Report

Number: SZHH01773566

Applicant: TANGSHAN HENGRUI PORCELAIN INDUSTRY
NO 4 HEBEI ROAD, LUBEI DISTRICT,
TANGSHAN, HEBEI 063020 CHINA

Date: Apr 03, 2023

Sample Description:

Overall Rating	:	Pass
TRF No.	:	A003011668
Protocol No.	:	LEN-02001-US, LEN-00002-US
Item Name	:	Butterfly Meadow 3 tiered server
Lenox SKU No.	:	825847
Brand	:	Lenox
Vendor Item No.	:	--
Vendor Name	:	Tangshan Hengrui Porcelain Industry Co., Ltd.
Vendor No.	:	--
Lenox Country of Origin	:	--
If Retest - Previous Report No.	:	--
Date Sample Received	:	Feb 22, 2023
Email Distribution	:	tshrcycorp@163.com;jennifer_campbell@lenox.com;Lorraine_avellino@lenox.com;beverley_reid@lenox.com



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.



Page 1 of 20



Test Report

Number: SZHH01773566

Conclusion:

<u>Tested Sample</u>	<u>Test item</u>	<u>Result</u>
Tested components of submitted samples	Applicant's requirement on Lead and Cadmium content in surface wipe	See remark
Submitted sample	<u>Standard</u> LENEX Test Specification LEN-02001-US for Ceramicware [Food-Contact Use], V16, dated Sep 09, 2022	Pass

Remark:

1. Per applicant's request, the submitted sample was tested pursuant to the Boelter Settlement requirements and it meets these requirements.
2. As per the client's requirement, the labeling was not reviewed in this report.

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Rachel L. Guo
General Manager



Page 2 of 20



Test Report

Number: SZHH01773566

Tests Conducted

1 Lead (Pb) and Cadmium (Cd) Content

With reference to LFT-002-03 Ver 1.0 and the California Proposition 65 case settlement CGC-05-440811 (the "Boelter Settlement").

For food contact articles:

<u>Element</u>	<u>Result (µg)</u>	<u>Reporting Limit (µg)</u>	<u>Limit (µg)</u>
	<u>Tested Component</u>		
	(4)		
Lead (Pb)	ND	0.5	1.0
Cadmium (Cd)	ND	0.5	8.0

ND = not detected

µg = microgramme

The above limit was referred to the Consent Judgment No. CGC-05-440811 (the "Boelter Settlement") settled by superior court of the State of California for the county of San Francisco, for ceramicware / glassware – food and beverage use products based on the California Proposition 65.

Tested Components: See component list in the last section of this report



Test Report

Number: SZHH01773566

Tests Conducted

LENOX Test Specification LEN-02001-US for Ceramicware [Food-Contact Use] V16, dated Sep 09, 2022

Attribute	Citation	Requirements / Limits	Result
Supplemental			
†* CA Prop 65 (Mandatory in state California)	Intertek Protocol	Consent Judgment of related court cases based on California Proposition 65. Note: for ceramic products, only ASTM C927 Immersion test will be conducted when other test methods are optional.	See supplemental protocol CA Prop 65
†* Children Product [Non-Toy] Supplemental	LEN-00004-US	Non-toy children product shall meet all applicable requirements specified in the protocol.	NA
†* Food Contact Product Supplemental	LEN-00002-US	Food contact product shall meet all applicable requirements specified in the protocol.	See LEN-00002-US
Chemical Test			
†* Toxic Elements in Packaging Components	TPCH/Client Requirement	Packaging shall comply with TPCH in those states with legislation. Total concentration of Pb, Cd, Hg and hexavalent Cr shall not exceed 100 ppm. NOTE: Do not fail or on hold the testing report but show "Not Provided" if vendor have no packaging submitted or no TPCH report submitted to lab. for document review	Not Provided
* Lead Content in Paint or Similar Surface Coating	With reference to 16 CFR 1303	Shall not contain Lead or Lead compounds in which the Lead content is in excess of 0.009% (90ppm) by weight of the total content.	P (See test data)
* Bisphenol A (BPA)	CA prop 65 List Client Requirement	Accessible components of product, that contain Bisphenol A (BPA) (CAS No. 80-05-7) more than 3 mg/kg (ppm), shall have a warning statement. NOTE: Actual testing will be conducted on coating (except for back print stamps) and plastic material only. Vendor shall be responsible for the compliance of other materials. Lenox set 3 ppm as requirement.	P (See test data)
Construction & Workmanship			
Sharp Points / Edges	With reference to 16 CFR 1500.48/1500.49	Shall have no sharp points/edges, other than those required for function.	P
Performance Test			
Functionality	ITS-M0061	Shall function as intended as received.	P
* Integrity of Handle Strength (Article with handle)	EN ISO 8442-8 Clause 6.2	No breakage at handle.	NA
* Impact Resistance (All articles, On Request Only)	ASTM C368 (Mod.)	The impact energy to produce failure shall not be less than 0.05J (0.04 ft · lbf). Mod. = Modify the sample size to 1 piece.	P



Page 4 of 20



Test Report

Number: SZHH01773566

Tests Conducted

Attribute	Citation	Requirements / Limits	Result															
* Leakage Test (For container with enclosure and hold liquids)	In-house Method	Fill the container with ink-stained water up to claimed maximum capacity (if no claim, fill to 80% of its nominal capacity). Close the container with the enclosure (e.g. lid, seal-lock, cap, or pour spout, etc.) as intended as received. Placed a white blotting paper on a horizontal surface. Lay the filled container on the white blotting paper for 1 hour. Water shall not spill or leak out at the enclosure. The white blotting paper shall have no damage or stain mark.	NA															
* Dishwasher Safe (All articles claimed with “dishwasher safe”)	Lenox 2 steps process (Step 1: Client SOP LFT-016(Mod); Step 2: ITS-M0001)	<u>Step 1 Accelerated Resistance to Detergents:</u> Test method: Client SOP LFT-016(Mod) <table><tr><th>Category</th><th>Test Plan</th><th>Comments</th></tr><tr><td>Crystal</td><td>1 time test</td><td>1.125 hrs</td></tr><tr><td>Ceramicware S/S Flatware</td><td>1 time test</td><td>1.125 hrs</td></tr></table> .If step 1 passes, the test is concluded and reported as such. If step 1 fails, Lenox category manager must make decision to test samples in the dishwasher and proceed to step 2. Mod. = Scope widened SOP LFT-016 with added S/S Flatware into scope, and for S/S Flatware, putting the whole sample into detergents for accelerated resistance is acceptable. <u>Step 2 Dishwasher Durability Testing:</u> Test method: ITS-M0001 <table><tr><th>Category</th><th>Test Plan</th></tr><tr><td>Crystal</td><td>125 cycles</td></tr><tr><td>Ceramicware S/S Flatware</td><td>125 cycles</td></tr></table> NOTE: For seasonal dinnerware and seasonal flatware, reduce the test to 50 cycles. Seasonal is defined by Lenox.	Category	Test Plan	Comments	Crystal	1 time test	1.125 hrs	Ceramicware S/S Flatware	1 time test	1.125 hrs	Category	Test Plan	Crystal	125 cycles	Ceramicware S/S Flatware	125 cycles	NA
Category	Test Plan	Comments																
Crystal	1 time test	1.125 hrs																
Ceramicware S/S Flatware	1 time test	1.125 hrs																
Category	Test Plan																	
Crystal	125 cycles																	
Ceramicware S/S Flatware	125 cycles																	
* Hand Wash Safe (For article claimed "Hand wash" or "Not dishwasher safe")	ITS-M0003	Article shall have no color change or adverse effects after 10 hand wash cycles using domestic detergent rubbed with damp cloth gently with warm water at 43 degree Celsius (110 degree Fahrenheit).	P															



Test Report

Number: SZHH01773566

Tests Conducted

Attribute	Citation	Requirements / Limits	Result
* Microwave Safe for Reheating (All articles claimed with "microwave safe")	ASTM C1607 (Mod.)	Ceramic ware shall have no crack or damage after both the preconditioning procedure and microwave heating procedure. The surface temperature after test: <u>For flatware</u> - After 1 minute test: 160°F (71°C) or less; - After 5 minutes test: 325°F (163°C) or less. <u>For cups and mugs</u> - Handle: 140°F (60°C) or less; - Body: 250°F (121°C) or less. Additional evaluation except surface temperature: <u>For gold trim or accents</u> - 1 minute test, and cooling to room temperature as 1 cycle - after 5 cycles, there shall be no negative effects or sparking. (Mod. = A microwave oven with 1000 Watts power will be used)	P (After 1 minute: A: 35.9°C; B: 40.3°C; C: 38.1°C; After 5 minute: A: 73.8°C; B: 72.4°C; C: 67.5°C)
* Effect of Boiling Water (All articles intended to contain hot liquid)	In-house Method	Pour boiling water into container to 80% of its maximum capacity. Drain the boiling water after 5 minutes. Total 3 cycles. Shall have no adverse effects.	NA
* Craze Resistance (Fired, glazed ceramic white ware) (On request only)	ASTM C554 (Mod.)	For fired, glazed ceramic white ware: Shall not craze up to and including 3 cycles at 300°F (149°C). Mod. = Modify the sample size to 3 pieces.	NA
Heat Resistance (For oven-use articles)	ITS-M0005	Shall have no cracking or other visible damage after 1 hour in oven at 350° F (180 ° C).	NA
* Resistance to Corrosion (For metal component) (On request only)	ASTM B117	Metal component shall withstand 24 hours in 5% (outdoor or indoor/outdoor items) /1% (indoor item) salt spray (fog) with no major corrosion or visual change.	NA
* Effects of Extreme Temperature & Humidity (Not for Indoor Use Product without Glue or Adhesive)	ITS-M0007	Shall withstand 16 hours at 0 degree Fahrenheit followed by 8 hours at 120 degree Fahrenheit and 95% RH. No failure or visual change.	NA
Labeling Requirement (NOTE: Do not fail the labeling requirement but show "Not Provided" if no available labeling provided to lab. for review)			



Test Report

Number: SZHH01773566

Tests Conducted

Attribute	Citation	Requirements / Limits	Result
† Product Packaging and Labeling	F.P. & L. Act, 16 CFR 500 (For one time use products) OR NIST Handbook 130 Uniform Laws and Regulations (For others)/Client Requirement	Manufacturer, packer, or distributor's name & address (city, state & zip) Product Identification Net quantity of contents shall be expressed in terms of weight or mass, measure, numerical count, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units). NOTE: If label is provided but the name and address of manufacturer or "Lenox" is not presented on the packaging or product, report as Conditional Pass (CPass) instead of fail.	NR
† Country of Origin Marking	19 CFR 134.11	Shall indicate country of origin legibly, permanently, and in comparable size and close proximity to any mention of country other than country in which the article was manufactured or produced. Must be visible at point of purchase.	NR
† Marking for Tableware (Mandatory in state California)	California Health Safety Code Section 108870	Tableware shall be permanently and indelibly marked (fired or manufactured into the glazed tableware) with the name of the manufacturer or importer in California. For tableware which is of a peculiar structure or too small, either a registered trademark shall be permanently and indelibly marked or if it is part of a tableware set, or pattern that one or more pieces are marked as above mentioned. NOTE: 1) Tableware means glazed ceramic, enamel metalware, or pewter article, container, or utensil that may be used in preparation, serving, or storage of food or drink (i.e. food contact). 2) This requirement is not applicable to tableware that is manufactured without lead or cadmium as an intentionally added ingredient or as an unintentional contaminant.	NR



Test Report

Number: SZHH01773566

Tests Conducted

Attribute	Citation	Requirements / Limits	Result												
†* Plastic Bag Warning	Various US State Law / With reference to Massachusetts Regulations 105 CMR 630.000 & New York Codes, Rules and Regulations (NYCRR) Title 10, § 12.12 & Rhode Island General Laws, Title 11, § 11-9-16 & California Business and Profession Code § 22200 & Code of Virginia, § 18.2-320	Plastic bags with a thickness of less than 1 mil (0.001 inch) having an opened end larger than 5 inches in diameter shall contain the following warning statement or equivalent: WARNING: To avoid danger of suffocation, keep this plastic bag away from babies and children. Do not use this bag in cribs, beds, carriages or playpens. This bag is not a toy. The warning shall be printed clearly so as to prevent the ink from smearing, or upon a gummed label securely attached to the plastic bag, and shall be printed in a prominent place with legible bold face type which shall be contrasted by typography, layout or color from the contents of the bag and from other printed matter on the bag, if any. The size of the print shall be as follows. If the total length and width of the bag is more than 40 inches, the warning shall be repeated at intervals of 20-inches or less. <table><tr><th>Total length and width of bag (X)</th><th>Size of print</th></tr><tr><td>X ≥ 60 inches</td><td>≥ 24 point</td></tr><tr><td>40 ≤ X < 60 inches</td><td>≥ 18 point</td></tr><tr><td>25 ≤ X < 40 inches</td><td>≥ 14 point</td></tr><tr><td>X < 25 inches</td><td>≥ 10 point</td></tr><tr><td>Bags intended for freshly clean clothes</td><td>≥ 36 point</td></tr></table> NOTE: The requirement for bags intended for freshly clean clothes is per state of Virginia.	Total length and width of bag (X)	Size of print	X ≥ 60 inches	≥ 24 point	40 ≤ X < 60 inches	≥ 18 point	25 ≤ X < 40 inches	≥ 14 point	X < 25 inches	≥ 10 point	Bags intended for freshly clean clothes	≥ 36 point	NR
Total length and width of bag (X)	Size of print														
X ≥ 60 inches	≥ 24 point														
40 ≤ X < 60 inches	≥ 18 point														
25 ≤ X < 40 inches	≥ 14 point														
X < 25 inches	≥ 10 point														
Bags intended for freshly clean clothes	≥ 36 point														
Verify Label Claims	ITS-M0060	Shall meet label claims (If applicable). Remark any claim that is not verified.	NR												
†*Proposition 65 Warning for Bisphenol A (BPA)	CA prop 65 List Client Requirement	If the product contained Bisphenol A (BPA) (CAS No. 80-05-7), it should provide a “clear and reasonable” Proposition 65 warning.	NR												



Test Report

Number: SZHH01773566

Tests Conducted

LENOX Test Specification LEN-00002-US for Food Contact Product Supplemental V4, dated Jun 26, 2019

Attribute	Citation	Requirements / Limits	Result																		
Chemical Test																					
†* Ceramic - Leachable Lead and Cadmium - Interior	FDA CPG 7117.06 and 7117.07	Food contact ceramic shall not release lead and cadmium exceeding below limits: <table><tr><td></td><td>Lead (ppm)</td><td>Cadmium (ppm)</td></tr><tr><td>Flatware</td><td>3.0</td><td>0.5</td></tr><tr><td>Small Hollowware</td><td>2.0</td><td>0.5</td></tr><tr><td>Large Hollowware</td><td>1.0</td><td>0.25</td></tr><tr><td>Cups and Mugs</td><td>0.5</td><td>0.5</td></tr><tr><td>Pitchers</td><td>0.5</td><td>0.25</td></tr></table>		Lead (ppm)	Cadmium (ppm)	Flatware	3.0	0.5	Small Hollowware	2.0	0.5	Large Hollowware	1.0	0.25	Cups and Mugs	0.5	0.5	Pitchers	0.5	0.25	P (See test data)
	Lead (ppm)	Cadmium (ppm)																			
Flatware	3.0	0.5																			
Small Hollowware	2.0	0.5																			
Large Hollowware	1.0	0.25																			
Cups and Mugs	0.5	0.5																			
Pitchers	0.5	0.25																			
†* Silver Plated Hollowware - Leachable Lead	FDA CPG 7117.05	Food contact silver plated hollowware shall not release lead exceeding below limit: - 7.0 ppm (adult); - 0.5 ppm (intended for children and infant).	NA																		
* Ceramic, Glass - Leachable Lead and Cadmium - Rim Decorated Drinking Vessel	SGCD / ASTM C927	Food contact ceramic and glass drink vessel decorated within top 20 mm of lip and rim area shall not release lead and cadmium exceeding below limits: - Pb: 4.0 ppm; - Cd: 0.4 ppm.	NA																		
†* Plastic, Polymeric Coating	21 CFR 175, 21 CFR 177, 21 CFR 180.22, or 21 CFR 181.32 (per plastic type)	Food contact plastic, polymeric coating shall meet all applicable requirements prescribed by the FDA regulations.	P (See test data)																		
†* Bisphenol A (BPA)	Various US State Law (CT, WA, NY, DE, IL, MA, MD, ME, MN, NV, VT, WI, the District of Columbia, Chicago City)	Below products shall not contain any detectable level of Bisphenol A. - Container, jar, or can that stored infant formula or baby food which is commercially available; - Reusable food or beverage container (i.e. food contact) including lid, cup, etc.; - Empty bottle, cup, or other container that is designed or intended to be filled with any liquid, food, or beverage primarily for consumption from container by children 3 years of age or younger; - Pacifier; Baby bottle liner; Straw. NOTE: Actual testing will be conducted on plastic material only. Vendor shall be responsible for the compliance of other materials.	NA																		
†* Paper, Paperboard	21 CFR 176.170	Food contact paper or paperboard shall meet all applicable requirements prescribed by the FDA regulations.	NA																		



Page 9 of 20



Test Report

Number: SZHH01773566

Tests Conducted

Attribute	Citation	Requirements / Limits	Result
* Stainless Steel	With reference to NSF/ANSI 51 / ITS-M0122 / Client Requirement	Food contact stainless steel shall meet the following requirements: 1) For stainless steel with no claim of AISI type series: a. minimum 10.5% chromium for non-cooking surface b. minimum 16.0% chromium for cooking surface. Or 2) For stainless steel that makes a claim of the AISI 200, 300 or 400 series provided that the minimum chromium content is 16%. If chromium content of the stainless steel is < 16% but ≥ 11.5%, it shall meet the requirement of the GRAS - Leachable heavy metal test. NOTE: 1) In lieu of testing, valid test report issued within 1 year by a third part lab shall be provided. If no test report is provided, actual test will be conducted. 2) Cutlery, blades and similar applications requiring a sharp edge, stainless steel with chromium content lower than 16% shall be acceptable provided that the stainless steel meets the hardness requirements specified in ITS-M0122.	NA
* GRAS - Leachable Heavy Metal (For stainless steel)	Generally Recognized As Safe (GRAS)	For food contact stainless steel with chromium content within 11.5 to 16%: - Release of Arsenic (As), Cadmium (Cd), Lead (Pb) and Mercury (Hg): Not detected	NA
Aluminium Alloy	With reference to NSF/ANSI 51	The following series of aluminum alloys are acceptable for food contact article: 1) Wrought alloys (sheet and extrusion): 1xxx series alloys; 3xxx series alloys; 4xxx series alloys; 5xxx series alloys; 6xxx series alloys. 2) Casting alloys: 218.x; 356.0; 514.0; 308.0; 360.0; 520.0; 319.0; 413.0; 713.0; 332.0; B443.0. NOTE: It is the vendor's responsibility to meet this requirement.	NA
* GRAS - Leachable Heavy Metal (For aluminum or aluminum alloy)	Generally Recognized As Safe (GRAS)	For food contact aluminum or aluminum alloy that the composition thereof does not fulfill the grading requirements: - Release of Arsenic (As), Cadmium (Cd), Lead (Pb) and Mercury (Hg): Not detected	NA
* Pewter Alloy - Lead Content	FDA Food Code Chapter 4 Part 101.13	Food contact pewter alloy shall not contain lead exceeding 500 ppm.	NA
* Solder and Flux Component - Lead Content	FDA Food Code Chapter 4 Part 101.13	Food contact solder and flux component shall not contain lead exceeding 2000 ppm.	NA



Test Report

Number: SZHH01773566

Tests Conducted

Attribute	Citation	Requirements / Limits	Result
* GRAS - Leachable Heavy Metal (For steel, tin plated, chromium plated, silver plated, gold plated, and cast iron)	Generally Recognized As Safe (GRAS)	For food contact steel, tin plated, chromium plated, silver plated, gold plated, and cast iron: - Release of Arsenic (As), Cadmium (Cd), Lead (Pb) and Mercury (Hg): Not detected	NA
* Wood, bamboo, rattan - PCP Content	With reference to 21 CFR 178.3800	Food contact wood, bamboo, rattan treated with preservatives shall not contain pentachlorophenol (PCP) exceeding 50 ppm.	NA
†* Fabric - Nylon or Polyester	21 CFR 177	Food contact fabric made of nylon or polyester (PET) shall meet all applicable requirements prescribed by the FDA regulations. NOTE: 1) Type of nylon (e.g. nylon 6, 66, etc.) shall be provided. 2) % by weight (e.g. 100%) of nylon or polyester shall be provided. 3) Fabric made from cotton or rayon are considered to be GRAS, no relevant test or requirement is required.	NA
* GRAS - Leachable Heavy Metal (For stoneware or rock)	Generally Recognized As Safe (GRAS)	For food contact stoneware or rock: - Release of Arsenic (As), Cadmium (Cd), Lead (Pb) and Mercury (Hg): Not detected	NA
* Leachable Cadmium and Lead (For porcelain enamel coating)	With reference to US FDA CPG 7117.06 and 7117.07	Recommended that food contact porcelain enamel coating shall meet the following requirement: Cd: 0.25 ppm (Large Hollowware / Pitchers); 0.5 ppm (Small Hollowware / Cups / Mugs); 0.5 ppm (Flatware). Pb: 1.0 ppm (Large Hollowware); 2.0 ppm (Small Hollowware); 0.5 ppm (Cups / Mugs / Pitchers); 3.0 ppm (Flatware).	NA
Physical Properties			
Use of Wood	FDA Food Code Chapter 4 Part 101.17 (A) and (B)(1)	Wood and wood wicker may not be used as food contact surface except as specified in the US FDA Food Code. Hard maple or an equivalently hard, close-grained wood may be used for cutting boards, cutting blocks; and utensils such as salad bowls, chopsticks, etc. NOTE: 1) It is the vendor's responsibility to meet this requirement. 2) Oak and hickory are also considered hard, however, pine is not.	NA
Labeling Requirement (NOTE: Do not fail the labeling requirement but show "Not Provided" if no available labeling provided to lab. for review)			



Test Report

Number: SZHH01773566

Tests Conducted

Attribute	Citation	Requirements / Limits	Result
† Marking of Tableware (State of California)	California Health Safety Code Section 108870	Tableware shall be permanently and indelibly marked (fired or manufactured into the glazed tableware) with the name of the manufacturer or importer in California. For tableware which is of a peculiar structure or too small, either a registered trademark shall be permanently and indelibly marked or if it is part of a tableware set, or pattern that one or more pieces are marked as above mentioned. NOTE: 1) Tableware means glazed ceramic, enamel metalware, or pewter article, container, or utensil that may be used in preparation, serving, or storage of food or drink (i.e. food contact). 2) This requirement is not applicable to tableware that is manufactured without lead or cadmium as an intentionally added ingredient or as an unintentional contaminant.	P

**Supplemental protocol—CA Prop 65
Version 43**

Products	Case	Requirement	Labeling	Result
Ceramicware (Internal): Food and Beverage use Products, include any china, porcelain or glazed earthenware tableware product (Exclude salt shakers & pepper shakers or mills)	SF-938430	Lead: Flatware: ≤ 0.226ppm Hollowware: ≤ 0.100ppm Method: AOAC 973.32 Cadmium: Flatware: ≤ 1.853ppm Small hollowware: ≤ 0.189ppm Large Hollowware: ≤ 0.049ppm Method: AOAC 973.32	No warning label is provided.	P (See test data)



Test Report

Number: SZHH01773566

Tests Conducted

Products	Case	Requirement	Labeling	Result
Ceramicware (Externally decorated): Food and Beverage use Products, include any china, porcelain or glazed earthenware tableware product (Include salt shakers & pepper shakers or mills)	SF-436729 SF-440811	(1) All decorated Area: (a) By NIOSH 9100 Lead: $\leq 1.0\mu\text{g}$ Cadmium: $\leq 4.0\mu\text{g}$ "Or" (b) By Total Immersion Test Lead: $\leq 0.99\text{ppm}$ Cadmium: $\leq 3.96\text{ppm}$ "Or" (c) By EPA Method 3050B and 6010B Lead: $\leq 0.06\%$ Cadmium: $\leq 0.24\%$ Children's Product (See Note 2) must meet (c)	No warning label is provided.	P (See test data)

Abbreviation: P = Pass; NA = Not Applicable; NR = Not Requested; R = Recorded



Test Report

Number: SZHH01773566

Tests Conducted

Test data

1. Test for F.D.A. Regulation on Resinous and Polymeric Coating

As per the U.S. Food and Drug Administration 21 CFR Part 175.300, Clause c4.

I. Condition of use

E. Room temperature filled and stored

II. Result

<u>Test item</u>	<u>Result</u> <u>(mg/in²)</u> <u>(2)</u>	<u>Reporting limit</u> <u>(mg/in²)</u>	<u>Fixed limit</u> <u>(mg/in²)</u>
Chloroform soluble extractive in water	ND	2.0	18
Chloroform soluble extractive in heptane	ND	2.0	18
Chloroform soluble extractive in 8% alcohol	ND	2.0	18

ND = Not detected(less than reporting limit)

Tested Components: See component list in the last section of this report.



Page 14 of 20



Test Report

Number: SZHH01773566

Tests Conducted

2 Test for F.D.A. Regulation on Closure with Sealing Gaskets for Food Containers

As per the U.S.21 CFR Food and Drug Administration Part 177.1210 Clause (c).

I. Condition of use

E. Room temperature filled and stored

II. Result

<u>Test item</u>	<u>Result</u>	<u>Reporting limit</u>	<u>Limit</u>
	(1)		
Soluble chloroform fraction in water extractant , ppm	ND	10	50
Soluble chloroform fraction in heptane extractant , ppm	ND	10	50/250/500
Soluble chloroform fraction in alcohol extractant , ppm	ND	10	50

Remark: The limit 50ppm for preformed overall discs or annular rings of vulcanized plasticized polymers, including natural or synthetic rubber

The limit 250 ppm for preformed overall discs or annular rings of polymeric or resinous-coated paper, paperboard, plastic, or metal foil substrates and Preformed overall discs or annular rings of plasticized polymers, including unvulcanized natural or synthetic rubber

The limit 500ppm for plasticized polymers, including unvulcanized or vulcanized or otherwise cured natural and synthetic rubber formed in place as overall discs or annular rings from a hot melt,solution, plastisol, organisol, mechanical dispersion, or latex

ND=Not detected (less than reporting limit)

Tested Components: See component list in the last section of this report.

3 Total Lead (Pb) Content (U.S. 16 CFR Part 1303)

As per Standard Operating Procedure for Determining Lead (Pb) in paint and other similar surface coatings, test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Element</u>	<u>Result (%)</u>	<u>Reporting Limit (%)</u>	<u>Limit (%)</u>
	<u>Tested Component</u>		
	(5)		
Lead (Pb)	ND	0.001	0.009

The above limit was quoted according to U.S. CFR Title 16 Part 1303 for Ban of Lead-containing Paint and Certain Consumer Products Bearing Lead-containing Paint.

ND = Not detected (less than reporting limit)

Tested Components: See component list in the last section of this report



Test Report

Number: SZHH01773566

Tests Conducted

4 Lead (Pb) and Cadmium (Cd) Content

With reference to NIOSH 9100.

Element	Result (µg)	Reporting Limit (µg)	Limit (µg)
	Tested Component		
	(3)		
Lead (Pb)	ND	0.5	1.0
Cadmium (Cd)	ND	0.5	4.0

µg = microgramme

ND = Not detected (less than reporting limit)

Tested Component(s): See component list in the last section of this report

5 Bisphenol-A Content

By solvent extraction and followed by Liquid Chromatographic / Tandem Mass Spectrometer (LC/MS/MS) analysis.

Test item	CAS No	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
		Tested component		
		(6)		
Bisphenol-A	80-05-7	0.6	0.1	3

Test item	CAS No	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
		Tested component		
		(1)		
Bisphenol-A	80-05-7	ND	0.1	3

ND = Not detected (less than detection limit)

Tested Component(s): See component list in the last section of this report



Test Report

Number: SZHH01773566

Tests Conducted

6 Leachable Lead (Pb) & Cadmium (Cd) Content

Examination of Marking on Tableware

Each submitted article was examined for the marking of the name of manufacturer/importer.

Requirement: All articles should be permanently and indelibly marked with the name of manufacturer/importer if the articles contain Lead or Cadmium.

Result: All submitted articles were **marked** with the name of manufacturer/importer.

Leachable Lead (Pb) & Cadmium (Cd) Content - Internal Surface

With reference to U.S. FDA CPG Sec. 545.400 (CPG 7117.06) and Sec. 545.450 (CPG 7117.07) and A.O.A.C. official methods of analysis 18th edition (2005) method 973.32 by Atomic Absorption Spectrophotometric analysis.

<u>Tested Article</u>	<u>Internal Depth</u>	<u>Volume of Leaching Solution</u>	<u>Lead</u>	<u>Cadmium</u>
Style A	(mm)	(ml)	(ppm)	(ppm)
(1)	14	160	0.06	ND (<0.03)
(2)	14	160	ND (<0.05)	ND (<0.03)
(3)	14	160	0.07	ND (<0.03)
(4)	14	160	ND (<0.05)	ND (<0.03)
(5)	14	160	ND (<0.05)	ND (<0.03)
(6)	14	160	0.05	ND (<0.03)
(7)	14	160	0.08	ND (<0.03)
(8)	14	160	0.07	ND (<0.03)
(9)	14	160	0.07	ND (<0.03)
(10)	14	160	0.07	ND (<0.03)
(11)	14	160	0.07	ND (<0.03)
(12)	14	160	0.07	ND (<0.03)
Average:			0.06	ND (<0.03)
Limit (US FDA – Flatware):			3.0	0.5
Limit (US California Proposition 65 – Flatware):			0.226	1.853

<u>Tested Article</u>	<u>Internal Depth</u>	<u>Volume of Leaching Solution</u>	<u>Lead</u>	<u>Cadmium</u>
Style B	(mm)	(ml)	(ppm)	(ppm)
(1)	17	340	ND (<0.05)	ND (<0.03)
(2)	17	340	ND (<0.05)	ND (<0.03)
(3)	17	340	ND (<0.05)	ND (<0.03)
(4)	17	340	ND (<0.05)	ND (<0.03)
(5)	17	340	ND (<0.05)	ND (<0.03)
(6)	17	340	ND (<0.05)	ND (<0.03)
(7)	17	340	ND (<0.05)	ND (<0.03)
(8)	17	340	ND (<0.05)	ND (<0.03)
(9)	17	340	ND (<0.05)	ND (<0.03)
(10)	17	340	ND (<0.05)	ND (<0.03)
(11)	17	340	ND (<0.05)	ND (<0.03)
(12)	17	340	ND (<0.05)	ND (<0.03)
Average:			ND (<0.05)	ND (<0.03)
Limit (US FDA – Flatware):			3.0	0.5
Limit (US California Proposition 65 – Flatware):			0.226	1.853



Test Report

Number: SZHH01773566

Tests Conducted

<u>Tested Article</u> Style C	<u>Internal Depth</u> (mm)	<u>Volume of Leaching Solution</u> (ml)	<u>Lead</u> (ppm)	<u>Cadmium</u> (ppm)
(1)	19	760	ND (<0.05)	ND (<0.03)
(2)	19	760	ND (<0.05)	ND (<0.03)
(3)	19	760	ND (<0.05)	ND (<0.03)
(4)	19	760	ND (<0.05)	ND (<0.03)
(5)	19	760	ND (<0.05)	ND (<0.03)
(6)	19	760	ND (<0.05)	ND (<0.03)
(7)	19	760	ND (<0.05)	ND (<0.03)
(8)	19	760	ND (<0.05)	ND (<0.03)
(9)	19	760	ND (<0.05)	ND (<0.03)
(10)	19	760	ND (<0.05)	ND (<0.03)
(11)	19	760	ND (<0.05)	ND (<0.03)
(12)	19	760	ND (<0.05)	ND (<0.03)
Average:			ND (<0.05)	ND (<0.03)
Limit (US FDA – Flatware):			3.0	0.5
Limit (US California Proposition 65 – Flatware):			0.226	1.853

The California limit was quoted from the Consent Judgment No. SF-938430 settled by superior court of the State of California for the city and county of San Francisco, for ceramic ware - food and beverage use products (internal) based on the California Proposition 65.

Remark: Articles which detected Lead and / or Cadmium while passed the US FDA Compliancy Policy Guide Sec. 545.400 (CPG 7117.06) and Sec. 545.450 (CPG 7117.07), will require permanent marking with the name of manufacturer/importer.

ppm = parts per million = mg/L
ND = Not detected

7 Leachable Lead (Pb) and Cadmium (Cd) Content - Total Immersion for Ceramicware

With reference to ASTM C738 modified for total immersion, leachable Lead and Cadmium content was determined by Atomic Absorption Spectrophotometric analysis.

<u>Specimen</u>	<u>Internal Volume</u> (ml)	<u>Volume of Leaching Solution</u> (ml)	<u>Result Relative to Internal Volume</u>	
			<u>Lead</u> (ppm)	<u>Cadmium</u> (ppm)
Style A				
(1)	160	800	<0.5	<0.5
(2)	160	800	<0.5	<0.5
(3)	160	800	<0.5	<0.5
(4)	160	800	<0.5	<0.5
(5)	160	800	<0.5	<0.5
(6)	160	800	<0.5	<0.5
Average :			<0.5	<0.5
Limit :			0.99	3.96

Test Report

Number: SZHH01773566

Tests Conducted

	<u>Internal</u>	<u>Volume of Leaching</u>	<u>Result Relative to Internal</u>	
<u>Specimen</u>	<u>Volume</u>	<u>Solution</u>	<u>Lead</u>	<u>Cadmium</u>
Style B	(ml)	(ml)	(ppm)	(ppm)
(1)	340	1200	<0.5	<0.5
(2)	340	1200	<0.5	<0.5
(3)	340	1200	<0.5	<0.5
(4)	340	1200	<0.5	<0.5
(5)	340	1200	<0.5	<0.5
(6)	340	1200	<0.5	<0.5
		Average :	<0.5	<0.5
		Limit :	0.99	3.96

	<u>Internal</u>	<u>Volume of Leaching</u>	<u>Result Relative to Internal</u>	
<u>Specimen</u>	<u>Volume</u>	<u>Solution</u>	<u>Lead</u>	<u>Cadmium</u>
Style C	(ml)	(ml)	(ppm)	(ppm)
(1)	760	2000	<0.5	<0.5
(2)	760	2000	<0.5	<0.5
(3)	760	2000	<0.5	<0.5
(4)	760	2000	<0.5	<0.5
(5)	760	2000	<0.5	<0.5
(6)	760	2000	<0.5	<0.5
		Average :	<0.5	<0.5
		Limit :	0.99	3.96

The above limit was quoted from the Consent Judgment No. SF- 436729 & SF-440811 settled by superior court of the state of California for the city and county of San Francisco, for ceramicware – food and beverage use products based on the California Proposition 65.

ppm = parts per million = mg/L



Test Report

Number: SZHH01773566

Tests Conducted

Component list:

- (1) White plastic (washer of plate).
- (2) Transparent coating with metal (holder of plate).
- (3) Multi-color glazed ceramic (plate).
- (4) Whole sample.
- (5) Transparent coating on metal (holder of plate).
- (6) Transparent wet paint (holder of plate).

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek.



Page 20 of 20

