

## TEST REPORT

Test Report # 20H-000383 Date of Report Issue: April 1, 2020  
Date of Sample Received: February 10, 2020 Pages: Page 1 of 32

### CLIENT INFORMATION:

Company: Polyconcept GBS  
Recipient: Lareina Qin  
Recipient Email: Lareina.Qin@Polyconceptgbs.com



### SAMPLE INFORMATION:

Description: Hand Grip Dbl-Wall Ceramic Mug, Simply Fit Water Bottle, Welly® Copper Vacuum Insulated Bottle 18oz, Tutti Frutti 25oz Tritan Sports Bottle  
Article No.: Refer to Page 2 Purchase Order Number: Refer to Page 2  
Factory No.: - Toy Co./Agency: -  
Vendor No.: 10391 Country of Origin: China  
Country of Distribution: United States, Canada Labeled Age Grade: -  
Quantity Submitted: Refer to Page 2 Requested Age Grade: -  
Testing Period: 02/11/2020 – 02/24/2020 Tested Age Grade: -  
03/17/2020 – 03/31/2020

### OVERALL RESULT:

 **PASS**

Refer to page 3 for test result summary and appropriate notes.

QIMA Testing (HK) Limited



Loska Yeung Lok Ka  
Assistant Manager, Chemical Laboratory

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**ARTICLE/ PO NO./ QUANTITY SUBMITTED DETAILED:**

Style description	Article No.	PO No.	Qty.
Hand Grip Dbl-Wall Ceramic Mug	1624-04GA	1828494	18 pcs
Simply Fit Water Bottle	1631-02GY	1713321	6 pcs
Welly® Copper Vacuum Insulated Bottle 18oz	1629-01BK	1835199	6 pcs
	1629-01BL	1822463	6 pcs
	1629-01WH	1835198	6 pcs
Tutti Frutti 25oz Tritan Sports Bottle	SM-6833BK	M000014369	5 pcs
	SM-6833LGR	M000007571	6 pcs
	SM-6833RBL	M000004409	6 pcs
	SM-6833RE	M000008116	6 pcs
	SM-6833WH	M000012741	6 pcs

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**TEST RESULTS SUMMARY:**

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	California Proposition 65, Total Lead in Glass and Ceramic Materials <sup>#φ</sup>
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers <sup>#</sup>
PASS	Client's Requirement, Bisphenol A <sup>#φ</sup>
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets <sup>#</sup>
PASS	FDA 21 CFR 177.1520, Polyethylene homopolymer
PASS	FDA 21 CFR 177.1520, Polypropylene Homopolymers
PASS	FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers
PASS	FDA 21 CFR 177.1640, Polystyrene <sup>#</sup>
PASS	FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers
PASS	California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment over 2,000 Pieces) – Interior
PASS	FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior
PASS	Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead in Surface Coating Materials
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content
PASS	Canadian Glazed Ceramics and Glassware Regulations SOR/2016-175, Leachable Lead and Cadmium from Ceramics and Glassware – Interior <sup>#</sup>

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**DETAILED RESULTS:**

**CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings**

Test Method: CPSC-CH-E-1003-09.1  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2	3+4	34	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	<b>90</b>
<b>Conclusion</b>	PASS	PASS	PASS	---	---	

*Note:*  
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)  
 LT = Less than  
 ND = Not detected (Reporting Limit = 20 ppm)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

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**DETAILED RESULTS:**

**California Proposition 65, Total Lead in Paints and Surface Coatings**

Test Method: CPSC-CH-E-1003-09.1  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2	3+4	34	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	90
<b>Conclusion</b>	PASS	PASS	PASS	---	---	

*Note:*  
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)  
 LT = Less than  
 ND = Not detected (Reporting Limit = 20 ppm)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

*Remark:*  
 The specification is quoted from client's requirement.

**DETAILED RESULTS:**

**California Proposition 65, Total Lead in Substrate Materials**

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	5+6	7+8	9+10	11+12	16+17	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	100
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	19	20	25	26+27+28	29+30+31	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	100
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	32+33	35	36	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	100
<b>Conclusion</b>	PASS	PASS	PASS	---	---	

**Note:**

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

**Remark:**

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**DETAILED RESULTS:**

**California Proposition 65, Total Lead in Glass and Ceramic Materials**

Test Method: In-House Method<sup>#φ</sup>  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	18	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	27	---	---	---	---	<b>100</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

*Remark:*

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**DETAILED RESULTS:**

**California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)**

Test Method: CPSC-CH-C1001-09.4  
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		2	3+4	5+6	7+8	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	LT 610	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	LT 610	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	LT 610	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	LT 610	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	LT 610	ND	ND	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	LT 610	ND	ND	1000
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

*Note:*  
 mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)  
 LT = Less than  
 ND = Not detected (Reporting Limit = 300 mg/kg)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

*Remark:*  
 The specification is quoted from client's requirement.



**DETAILED RESULTS:**

**California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)**

Test Method: CPSC-CH-C1001-09.4  
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		9+10	11+12	16+17	25	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	ND	1000
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

*Note:*  
 mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)  
 LT = Less than  
 ND = Not detected (Reporting Limit = 300 mg/kg)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

*Remark:*  
 The specification is quoted from client's requirement.

**DETAILED RESULTS:**

**California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)**

Test Method: CPSC-CH-C1001-09.4  
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		26+27+28	29+30+31	32+33	34	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	ND	1000
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

*Note:*  
 mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)  
 LT = Less than  
 ND = Not detected (Reporting Limit = 300 mg/kg)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

*Remark:*  
 The specification is quoted from client's requirement.

**DETAILED RESULTS:**

**California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)**

Test Method: CPSC-CH-C1001-09.4  
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		35	36	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	---	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	---	---	1000
<b>Conclusion</b>		PASS	PASS	---	---	

*Note:*  
 mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)  
 LT = Less than  
 ND = Not detected (Reporting Limit = 300 mg/kg)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

*Remark:*  
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**DETAILED RESULTS:**

**FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers**

Test Method: In-House Method<sup>#</sup>  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	20	21	---	---	---	Limit (% m/m)
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	
Total Chromium (Cr)	16.2	17.0	---	---	---	<b>GT 16</b>
<b>Conclusion</b>	PASS	PASS	---	---	---	

*Note:*  
 % m/m = Percent by mass  
 GT = Greater than

*Remark:*  
 The limit is quoted from NSF/ANSI 51-2012 Section 4.2.1.

**DETAILED RESULTS:**

**Client's Requirement, Bisphenol A**

Test Method: In-House Method<sup>#φ</sup>  
 Analytical Method: Liquid Chromatography with Fluorescence Detection

Specimen No.		5	6	7	8	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	ND
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

Specimen No.		10	13	14	15	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	ND
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

Specimen No.		25	26	27	28	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	ND
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

*Note:*  
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)  
 LT = Less than  
 ND = Not Detected (Reporting Limit = 1 ppm)

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**DETAILED RESULTS:**

**Client's Requirement, Bisphenol A**

Test Method: In-House Method<sup>#φ</sup>  
 Analytical Method: Liquid Chromatography with Fluorescence Detection

Specimen No.		29	30	31	32	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	ND
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

Specimen No.		33	35	36	---	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	---	ND
<b>Conclusion</b>		PASS	PASS	PASS	---	

*Note:*  
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**DETAILED RESULTS:**

**FDA 21 CFR 177.1210, Closures with Sealing Gaskets**

Test Method: FDA 21 CFR 177.1210#

Specimen No.			5	---	RL (ppm)	Limit (ppm)
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	Fill boiling	Until Cool to 100°F	ND	---	10	50
<b>Conclusion</b>			PASS	---		

*Note:*

Temp. = Temperature

°F = Degree Fahrenheit

ppm (Parts per million) = mg/kg (Milligrams per kilogram foodstuff)

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

*Remark:*

The specification is quoted from 21 CFR 177.1210 Table 2 Section 3.

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**DETAILED RESULTS:**

**FDA 21 CFR 177.1210, Closures with Sealing Gaskets**

Test Method: FDA 21 CFR 177.1210#

Specimen No.			7	8	RL (ppm)	Limit (ppm)
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	Fill boiling	Until Cool to 100°F	ND	12	10	50
<b>Conclusion</b>			PASS	PASS		

Specimen No.			23	35	RL (ppm)	Limit (ppm)
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	Fill boiling	Until Cool to 100°F	13	ND	10	50
<b>Conclusion</b>			PASS	PASS		

Specimen No.			24	25	RL (ppm)	Limit (ppm)
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	120°F	24 hours	ND	ND	10	50
<b>Conclusion</b>			PASS	PASS		

**Note:**

Temp. = Temperature

°F = Degree Fahrenheit

ppm (Parts per million) = mg/kg (Milligrams per kilogram foodstuff)

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

**Remark:**

The specification is quoted from 21 CFR 177.1210 Table 2 Section 2.

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**DETAILED RESULTS:**

**FDA 21 CFR 177.1520, Polyethylene homopolymer**

Test Method: FDA 21 CFR 177.1520

Specimen No.			27	---		
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.910	---	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	1.5	---	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	2.1	---	1.0	11.3
<b>Conclusion</b>			PASS	---		

*Note:*

Temp. = Temperature

°C = Degree Celsius

g/cc = Grams per cubic centimeter

% = Percent by weight

NA = Not applicable

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

*Remark:*

The specification is quoted from 21 CFR 177.1520 (c) 2.1.

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**DETAILED RESULTS:**

**FDA 21 CFR 177.1520, Polypropylene Homopolymers**

Test Method: FDA 21 CFR 177.1520

Specimen No.			13	14	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.904	0.896	NA	<b>0.880 – 0.913</b>
Melting point (°C)	NA	NA	169.9	169.8	NA	<b>150 – 180</b>
n-Hexane extractive (%)	Reflux	2 hours	1.0	1.5	<b>0.1</b>	<b>6.4</b>
Xylene extractive (%)	120°C	2 hours or until total dissolved	1.6	2.6	<b>0.5</b>	<b>9.8</b>
<b>Conclusion</b>			PASS	PASS		

Specimen No.			15	30	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.895	0.902	NA	<b>0.880 – 0.913</b>
Melting point (°C)	NA	NA	170.3	168.1	NA	<b>150 – 180</b>
n-Hexane extractive (%)	Reflux	2 hours	1.4	1.8	<b>0.1</b>	<b>6.4</b>
Xylene extractive (%)	120°C	2 hours or until total dissolved	2.2	2.5	<b>0.5</b>	<b>9.8</b>
<b>Conclusion</b>			PASS	PASS		

**Note:**

Temp. = Temperature

°C = Degree Celsius

g/cc = Grams per cubic centimeter

% w/w = Percent by weight

NA = Not applicable

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

**Remark:**

The specification is quoted from 21 CFR 177.1520 (c) 1.1.

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**DETAILED RESULTS:**

**FDA 21 CFR 177.1520, Polypropylene Homopolymers**

Test Method: FDA 21 CFR 177.1520

Specimen No.			31	32	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.907	0.906	NA	<b>0.880 – 0.913</b>
Melting point (°C)	NA	NA	168.5	168.6	NA	<b>150 – 180</b>
n-Hexane extractive (%)	Reflux	2 hours	1.6	1.7	<b>0.1</b>	<b>6.4</b>
Xylene extractive (%)	120°C	2 hours or until total dissolved	2.7	3.1	<b>0.5</b>	<b>9.8</b>
<b>Conclusion</b>			PASS	PASS		

Specimen No.			33	36	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.908	0.893	NA	<b>0.880 – 0.913</b>
Melting point (°C)	NA	NA	168.9	169.3	NA	<b>150 – 180</b>
n-Hexane extractive (%)	Reflux	2 hours	1.4	1.5	<b>0.1</b>	<b>6.4</b>
Xylene extractive (%)	120°C	2 hours or until total dissolved	2.1	2.4	<b>0.5</b>	<b>9.8</b>
<b>Conclusion</b>			PASS	PASS		

**Note:**

Temp. = Temperature

°C = Degree Celsius

g/cc = Grams per cubic centimeter

% w/w = Percent by weight

NA = Not applicable

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

**Remark:**

The specification is quoted from 21 CFR 177.1520 (c) 1.1.

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**DETAILED RESULTS:**

**FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers**

Test Method: FDA 21 CFR 177.1630

Specimen No.			10	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in <sup>2</sup> )	250°F	2 hours	ND	<b>0.1</b>	<b>0.5</b>
n-Heptane extractive (mg/in <sup>2</sup> )	150°F	2 hours	0.11	<b>0.1</b>	<b>0.5</b>
<b>Conclusion</b>			PASS		

Specimen No.			29	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in <sup>2</sup> )	250°F	2 hours	ND	<b>0.1</b>	<b>0.5</b>
n-Heptane extractive (mg/in <sup>2</sup> )	150°F	2 hours	ND	<b>0.1</b>	<b>0.5</b>
<b>Conclusion</b>			PASS		

**Note:**

Temp. = Temperature

°F = Degree Fahrenheit

mg/in<sup>2</sup> = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

**Remark:**

The specification is quoted from 21 CFR 177.1630 (f).

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**DETAILED RESULTS:**

**FDA 21 CFR 177.1640, Polystyrene**

Test Method: FDA 21 CFR 177.1640#  
 Analytical Method: Gas Chromatography with Mass Spectrometry

Contact with Non-Fatty Foods

Specimen No.	26	---	---	---	Limit (% m/m)
Test Item	CAS No.	Result (% m/m)	Result (% m/m)	Result (% m/m)	
Styrene	100-42-5	ND	---	---	<b>1</b>
<b>Conclusion</b>	PASS	---	---	---	

*Note:*

% m/m = Percent by mass

LT = Less than

ND = Not detected (Reporting Limit = 0.15 % m/m)

*Remark:*

The specification is quoted from 21 CFR 177.1640 (c) (1).

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**DETAILED RESULTS:**

**FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers**

Test Method: FDA 21 CFR 180.22 and 181.32  
 Analytical Method: Headspace-Gas Chromatography with Mass Spectrometry

Acrylonitrile Monomers:

Specimen No.			28	RL	Limit
Test Simulant	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in <sup>2</sup> )	120°F	2 hours	ND	<b>0.001</b>	<b>0.003</b>
3% Acetic acid extractive (mg/in <sup>2</sup> )	120°F	2 hours	ND	<b>0.001</b>	<b>0.003</b>
<b>Conclusion</b>			PASS		

*Note:*

Temp. = Temperature  
 °F = Degree Fahrenheit  
 mg/in<sup>2</sup> = Milligrams per square inch  
 LT = Less than  
 ND = Not detected. Result value is less than reporting limit (RL).

*Remark:*

The specification is quoted from 21 CFR 181.32 (b) (3).

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**DETAILED RESULTS:**

**California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment over 2,000 Pieces) – Interior**

Test Method: ASTM C738-94(Reapproved 2016)  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	22A	22B	22C	22D	22E	22F	22G
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)
Volume of acid used (mL)	370	370	370	370	370	370	370
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	ND
<b>Conclusion</b>							

Specimen No.	22H	22I	22J	22K	22L	Average (mg/L)	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)		
Volume of acid used (mL)	370	370	370	370	370		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	<b>0.049</b>
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	<b>0.100</b>
<b>Conclusion</b>						PASS	

**Note:**  
 mL = Millilitres  
 mg/L (Milligrams per litre) = ppm (Parts per million)  
 NA = Not applicable  
 LT = Less than  
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

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Category		Leachable Cd (mg/L)	Leachable Pb (mg/L)
X	Cups and Mugs (Average of 12)	<b>0.049</b>	<b>0.100</b>
	Flatware (Average of 12)	<b>0.189</b>	<b>0.226</b>
	Large Hollowware (Average of 12)	<b>0.049</b>	<b>0.100</b>
	Small Hollowware (Average of 12)	<b>0.049</b>	<b>0.100</b>
	Pitchers (Average of 12)	<b>0.049</b>	<b>0.100</b>

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**DETAILED RESULTS:**

**FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior**

Test Method: ASTM C738-94(Reapproved 2016)  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	22A	22B	22C	22D	22E	22F	Average (mg/L)	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)		
Volume of acid used (mL)	370	370	370	370	370	370		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	<b>0.5</b>
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	<b>0.5</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	PASS		

*Note:*  
 mL = Millilitres  
 mg/L (Milligrams per litre) = ppm (Parts per million)  
 NA = Not applicable  
 LT = Less than  
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

Category		Leachable Cd (mg/L)	Leachable Pb (mg/L)
X	Cups and Mugs (Any of 6)	<b>0.5</b>	<b>0.5</b>
	Flatware (Average of 6)	<b>0.5</b>	<b>3.0</b>
	Large Hollowware (Any of 6)	<b>0.25</b>	<b>1.0</b>
	Small Hollowware (Any of 6)	<b>0.5</b>	<b>2.0</b>
	Pitchers (Any of 6)	<b>0.25</b>	<b>0.5</b>

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**DETAILED RESULTS:**

**Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead in Surface Coating Materials**

Test Method: CPSC-CH-E-1003-09.1  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2	3+4	34	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	90
<b>Conclusion</b>	PASS	PASS	PASS	---	---	

*Note:*  
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)  
 LT = Less than  
 ND = Not detected (Reporting Limit = 20 ppm)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

**DETAILED RESULTS:**

**Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content**

Test Method: ASTM F963-17 Clause 8.3.1  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2	3+4	5+6	7+8	9+10	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	ND	90
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	11+12	19	20	25	26+27+28	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	ND	90
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	29+30+31	32+33	34	35	36	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	ND	90
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

*Note:*  
 mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)  
 LT = Less than  
 ND = Not detected (Reporting Limit = 20 mg/kg)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

**DETAILED RESULTS:**

**Canadian Glazed Ceramics and Glassware Regulations SOR/2016-175, Leachable Lead and Cadmium from Ceramics and Glassware – Interior**

Test Method: ISO 6486-1:2019#  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	22M	22N	22O	22P	22Q	22R	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	
Volume of acid used (mL)	375	375	375	375	375	375	
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	<b>0.50</b>
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	<b>0.5</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	PASS	

*Note:*

mL = Millilitres  
 mg/L (Milligrams per litre) = ppm (Parts per million)  
 LT = Less than  
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

Category		Leachable Cd (mg/L)	Leachable Pb (mg/L)
X	Cups and Mugs (Any of 6)	<b>0.50</b>	<b>0.5</b>
	Flatware (Any of 6)	<b>0.50</b>	<b>3.0</b>
	Large Hollowware (Any of 6)	<b>0.25</b>	<b>1.0</b>
	Small Hollowware (Any of 6)	<b>0.50</b>	<b>2.0</b>
	Pitchers (Any of 6)	<b>0.25</b>	<b>0.5</b>

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**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
2	Clear lacquer	On wooden shell (all 1629-01 styles)
3	Black coating	On outer body (1629-01BK style)
4	Blue coating	On outer body (1629-01BL style)
5	Grey soft plastic (TPR)	Stopper (1631-02GY style)
6	Translucent soft plastic	Gaskets (1631-02GY/ all SM-6833 styles)
7	Black soft plastic (Silicone)	Gasket (1629-01BK style)
8	Blue soft plastic (Silicone)	Gasket (1629-01BL style)
9	Grey plastic	Flip/ lid (1631-02GY style)
10	Clear plastic (PETG)	Bottle body (1631-02GY style)
11	Black plastic	Lid/ rim of base (1629-01BK style); lid/ bottom (SM-6833BK style); rim of base (1629-01WH style)
12	Blue plastic	Lid/ rim of base (1629-01BL style)
13	Black plastic (PP-homo)	Lid (1629-01BK style); lid/ bottom (SM-6833BK style)
14	Blue plastic (PP-homo)	Lid (1629-01BL style)
15	Grey plastic (PP-homo)	Lid (1631-02GY style)
16	Dull black soft plastic	Base pad (1624-04GA/ 1629-01BK/ 1629-01WH styles)
17	Dull blue soft plastic	Base pad (1629-01BL style)
18	Black printed dull white ceramic	Mug (1624-04 GA style)
19	Silvery metal	Infuser & inner/ outer body (all 1629-01 styles)
20	Dull silvery metal	Handle of infuser (all 1629-01 styles)
21	Silvery metal (304SS)	Infuser/ inner body (all 1629-01 styles)
22	Black printed dull white ceramic	Interior of mug (1624-04 GA style)
23	Translucent soft plastic (Silicone)	Gasket (1631-02GY style)
24	Translucent soft plastic (Silicone)	Gaskets (all SM-6833 styles)
25	Flat grey soft plastic (Silicone)	Valve (all SM-6833 styles)
26	Flat clear plastic (PS)	Nozzle (all SM-6833 styles)

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Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

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**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
27	Translucent plastic (PE)	Straw (all SM-6833 styles)
28	Transparent plastic (AS)	Infuser (all SM-6833 styles)
29	Bright clear plastic (Tritan)	Body (all SM-6833 styles)
30	Green plastic (PP-homo)	Lid/ bottom (SM-6833LGR style)
31	Deep blue plastic (PP-homo)	Lid/ bottom (SM-6833RBL style)
32	Red plastic (PP-homo)	Lid/ bottom (SM-6833RE style)
33	White plastic (PP-homo)	Lid/ bottom (SM-6833WH style)
34	White coating	On outer body (1629-01WH style)
35	White soft plastic (Silicone)	Gasket (1629-01WH style)
36	Dull white plastic (PP-homo)	Lid (1629-01WH style)

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**SAMPLE PHOTO:**



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**SAMPLE PHOTO:**



-End Report-

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