

TEST REPORT

Test Report # 21H-021502 Date of Report Issue: November 9, 2021
Date of Sample Received: October 12, 2021 Pages: Page 1 of 41

CLIENT INFORMATION:

Company: Polyconcept GBS
Recipient: Kathy Lu
Recipient Email: Kathy.Lu@Polyconceptgbs.com



SAMPLE INFORMATION:

Description: Arsenal 17oz Vacuum Bottle, Troika 25oz Stainless Sports Bottle, Li'l Shorty 17oz Aluminum Sports Bottle, Sizzle 24oz Tumbler, Grom 22oz Aluminum Sports Bottle, Sherpa 11-oz. Vacuum Tumbler & Insulator, Atlantic 18oz Vacuum Bottle, Speckled Sherpa 11oz Tumbler & Insulator

Article No.: Refer to Page 2 Purchase Order Number: Refer to Page 2
Factory No.: 10531 Toy Co./Agency: -
Vendor No.: - Country of Origin: -
Country of Distribution: - Labeled Age Grade: -
Quantity Submitted: Refer to Page 2 Requested Age Grade: -
Testing Period: 10/18/2021 – 10/26/2021 Tested Age Grade: -
11/01/2021 – 11/08/2021

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.
Troika 25oz Stainless Sports Bottle - SM-6697BK	SM-6697BK	M000023238	6 pcs
Li'l Shorty 17oz Aluminum Sports Bottle - SM-6788SI	SM-6788SI	M000016553	6 pcs
Li'l Shorty 17oz Aluminum Sports Bottle - SM-6788WH	SM-6788WH	M000021526	6 pcs
Li'l Shorty 17oz Aluminum Sports Bottle - SM-6788LBL	SM-6788LBL	M000017397	6 pcs
Grom 22oz Aluminum Sports Bottle - SM-6867CA	SM-6867CA	M000022125	6 pcs
Grom 22oz Aluminum Sports Bottle - SM-6867RYL	SM-6867RYL	M000018997	6 pcs
Grom 22oz Aluminum Sports Bottle - SM-6867SL	SM-6867SL	M000019638	6 pcs
Sherpa 11-oz. Vacuum Tumbler & Insulator - SM-6686BK	SM-6686BK	M000021974	6 pcs
Sherpa 11-oz. Vacuum Tumbler & Insulator - SM-6686GY	SM-6686GY	M000022999	6 pcs
Sherpa 11-oz. Vacuum Tumbler & Insulator - SM-6686NY	SM-6686NY	M000023039	6 pcs
Sherpa 11-oz. Vacuum Tumbler & Insulator - SM-6686OR	SM-6686OR	M000021196	6 pcs
Sherpa 11-oz. Vacuum Tumbler & Insulator - SM-6686RYL	SM-6686RYL	M000023091	6 pcs
Sherpa 11-oz. Vacuum Tumbler & Insulator - SM-6686SL	SM-6686SL	M000021971	6 pcs
Sherpa 11-oz. Vacuum Tumbler & Insulator - SM-6686LM	SM-6686LM	M000019588	6 pcs
Sherpa 11-oz. Vacuum Tumbler & Insulator - SM-6686TQ	SM-6686TQ	M000021196	6 pcs
Sherpa 11-oz. Vacuum Tumbler & Insulator - SM-6686RD	SM-6686RD	M000022219	6 pcs
Sherpa 11-oz. Vacuum Tumbler & Insulator - SM-6686WH	SM-6686WH	M000023165	6 pcs
Atlantic 18oz Vacuum Bottle	SM-6899RD	M000018215	6 pcs
Speckled Sherpa 11oz Tumbler & Insulator - SM-6921BK	SM-6921BK	M000022219	6 pcs
Speckled Sherpa 11oz Tumbler & Insulator - SM-6921GY	SM-6921GY	M000022675	6 pcs
Speckled Sherpa 11oz Tumbler & Insulator - SM-6921HG	SM-6921HG	M000022491	6 pcs
Speckled Sherpa 11oz Tumbler & Insulator - SM-6921NY	SM-6921NY	M000023238	6 pcs
Speckled Sherpa 11oz Tumbler & Insulator - SM-6921WH	SM-6921WH	M000022999	6 pcs
Sizzle 24oz Tumbler - SM-6857CL	SM-6857CL	M000023495	6 pcs
Arsenal 17oz Vacuum Bottle - SM-6475RYL	SM-6475RYL	M000023398	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, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers [#]
PASS	Client's Requirement, Bisphenol A [#]
PASS	FDA 21 CFR 175.300, Resinous and Polymeric Coatings [#]
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets [#]
PASS	FDA 21 CFR 177.1520, Polyethylene copolymer
PASS	FDA 21 CFR 177.1520, Polypropylene Copolymers
PASS	FDA 21 CFR 177.1520, Polypropylene Homopolymers
PASS	FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers
PASS	FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers
PASS	Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium
PASS	ASTM B117-19 Resistance to Corrosion [#]
PASS	Client's Requirement, Leachable Lead and Cadmium from Food Contact Articles – Lip and Rim
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

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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.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	75	31	22	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17	18+19	20	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	90
Conclusion	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:

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.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	75	31	22	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17	18+19	20	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	90
Conclusion	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.	21+22+23	24+25+26	27+28	32+33	34+35	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	43	45	46	47	48	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	20	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	49	50	51	72	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	44	ND	---	100
Conclusion	PASS	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, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

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

Specimen No.		1+2+3	4+5+6	7+8+9	10+11+12	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
Conclusion		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.		13+14+15	16+17	18+19	20	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
Conclusion		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.		21+22+23	24+25+26	27+28	32+33	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
Conclusion		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.		34+35	72	---	---	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
Conclusion		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:

FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers

Test Method: In-House Method[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	44	45	---	---	---	Limit (% m/m)
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	
Total Chromium (Cr)	17.5	19.8	---	---	---	GT 16
Conclusion	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.

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DETAILED RESULTS:

Client's Requirement, Bisphenol A

Test Method: In-House Method#
 Analytical Method: Liquid Chromatography with Fluorescence Detection,
 Liquid Chromatography-Mass Spectrometer (LC-MS)

Specimen No.	5	21	22	23	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
Conclusion	PASS	PASS	PASS	PASS	

Specimen No.	24	25	26	27	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
Conclusion	PASS	PASS	PASS	PASS	

Specimen No.	28	32	33	34	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
Conclusion	PASS	PASS	PASS	PASS	

Specimen No.	35	72	---	---	Limit (ppm)
Test Item CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Bisphenol A (BPA) 80-05-7	ND	ND	---	---	ND
Conclusion	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:

FDA 21 CFR 175.300, Resinous and Polymeric Coatings

Test Method: FDA 21 CFR 175.300[#]

Specimen No.			5	---	RL (mg/in ²)	Limit (mg/in ²)
Test Item	Test Condition		Result (mg/in ²)	Result (mg/in ²)		
	Temp.	Duration				
Distilled water extractive	Fill boiling	Until Cool to 100 ^o F	ND	---	0.10	18
Conclusion			PASS	---		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in² = 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 175.300 (c) (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.			37	38	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	ND	10	50
Conclusion			PASS	PASS		

Specimen No.			39	40	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	ND	10	50
Conclusion			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 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210[#]

Specimen No.			41	42	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	ND	10	50
Conclusion			PASS	PASS		

Specimen No.			74	---	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
Conclusion			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 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210[#]

Specimen No.			36	73	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
Conclusion			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 copolymer

Test Method: FDA 21 CFR 177.1520

Specimen No.			27	---		
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.911	---	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	1.3	---	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or total dissolved	1.8	---	1.0	30
Conclusion			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) 3.1a.

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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			28	72	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.900	0.898	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.9	0.9	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	1.9	2.4	1.0	30
Conclusion			PASS	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:

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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			22	23	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.902	0.902	NA	0.880 – 0.913
Melting point (°C)	NA	NA	166.5	166.3	NA	150 – 180
n-Hexane extractive (%)	Reflux	2 hours	1.0	1.1	0.1	6.4
Xylene extractive (%)	120°C	2 hours or until total dissolved	1.6	1.5	0.5	9.8
Conclusion			PASS	PASS		

Specimen No.			29	---	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.902	---	NA	0.880 – 0.913
Melting point (°C)	NA	NA	166.3	---	NA	150 – 180
n-Hexane extractive (%)	Reflux	2 hours	1.6	---	0.1	6.4
Xylene extractive (%)	120°C	2 hours or until total dissolved	1.3	---	0.5	9.8
Conclusion			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:

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DETAILED RESULTS:

FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No.		25		Result	RL	Limit
Test Item	Test Condition		Temp.			
	Distilled water extractive (mg/in ²)	250°F		2 hours	ND	0.1
n-Heptane extractive (mg/in ²)	150°F	2 hours	ND	0.1	0.5	
Conclusion			PASS			

Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in² = 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 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.			26	RL	Limit
Test Simulant	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in ²)	120°F	2 hours	ND	0.001	0.003
3% Acetic acid extractive (mg/in ²)	120°F	2 hours	ND	0.001	0.003
Conclusion			PASS		

Specimen No.			30	RL	Limit
Test Simulant	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in ²)	120°F	2 hours	ND	0.001	0.003
3% Acetic acid extractive (mg/in ²)	120°F	2 hours	ND	0.001	0.003
Conclusion			PASS		

Specimen No.			31	RL	Limit
Test Simulant	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in ²)	120°F	2 hours	ND	0.001	0.003
3% Acetic acid extractive (mg/in ²)	120°F	2 hours	ND	0.001	0.003
Conclusion			PASS		

Note:
 Temp. = Temperature
 °F = Degree Fahrenheit
 mg/in² = 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).

DETAILED RESULTS:

Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium

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

Specimen No.	52A	52B	52C	52D	---	---	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	530	530	530	530	---	---		
Leachable Cadmium (Cd)	ND	ND	ND	ND	---	---	NA	0.5
Leachable Lead (Pb)	ND	ND	ND	ND	---	---	NA	2.0
Conclusion	PASS	PASS	PASS	PASS	---	---		

Note:

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

Remark:

The specification is referred from FDA CPG 545.400 & CPG 545.450. Four samples were tested as per received.

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

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DETAILED RESULTS:

Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium

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

Specimen No.	53A	53B	53C	53D	53E	53F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	650	650	650	650	650	650		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.5
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	2.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

Note:

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

Remark:

The specification is referred from FDA CPG 545.400 & CPG 545.450.

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

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DETAILED RESULTS:

ASTM B117-19 Resistance to Corrosion

Test Method: ASTM B117-19#
 Analytical Method: Salt Spray (Fog) Apparatus
 Evaluation: In-house rating

Specimen no.:	52	Rating	Conclusion
Condition	Observation		
1% Sodium chloride solution for 24 hours	Rusting was not found on test sample.	6	PASS

Specimen no.:	53	Rating	Conclusion
Condition	Observation		
1% Sodium chloride solution for 24 hours	Rusting was not found on test sample.	6	PASS

Notes:

NR = Not required; NA = Not applicable

Rating (quantity of defect): Rating 6 = Completely free of corrosion
 Rating 5 = Very minor, i.e., little or barely corrosion
 Rating 4 = Minor, i.e., little but significant corrosion
 Rating 3 = Moderate, i.e., scattered corrosion
 Rating 2 = Extensive, i.e., considerable corrosion
 Rating 1 = Severe, i.e., dense corrosion

Requirement: Rating 6 = PASS; Rating 5 or below = FAIL (See Failure photo)

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DETAILED RESULTS:

Client’s Requirement, Leachable Lead and Cadmium from Food Contact Articles – Lip and Rim

Test Method: ASTM C927-80(Reapproved 2019)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	54A	54B	54C	54D	---	---	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	80	80	80	80	---	---		
Leachable Cadmium (Cd)	ND	ND	ND	ND	---	---	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	---	---	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	---	---		

Specimen No.	55A	55B	55C	55D	---	---	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	80	80	80	80	---	---		
Leachable Cadmium (Cd)	ND	ND	ND	ND	---	---	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	---	---	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	---	---		

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

Remark:
 The limit is quoted from Society of Glass & Ceramic Decorated Products. Four samples were tested as per received.

DETAILED RESULTS:

Client's Requirement, Leachable Lead and Cadmium from Food Contact Articles – Lip and Rim

Test Method: ASTM C927-80(Reapproved 2019)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	56A	56B	56C	56D	---	---	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	80	80	80	80	---	---		
Leachable Cadmium (Cd)	ND	ND	ND	ND	---	---	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	---	---	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	---	---		

Specimen No.	57A	57B	57C	57D	57E	57F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

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

Remark:
 The limit is quoted from Society of Glass & Ceramic Decorated Products. Four samples were tested as per received of specimen no. 56.

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DETAILED RESULTS:

Client’s Requirement, Leachable Lead and Cadmium from Food Contact Articles – Lip and Rim

Test Method: ASTM C927-80(Reapproved 2019)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	58A	58B	58C	58D	58E	58F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

Specimen No.	59A	59B	59C	59D	59E	59F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

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

Remark:
 The limit is quoted from Society of Glass & Ceramic Decorated Products.

DETAILED RESULTS:

Client’s Requirement, Leachable Lead and Cadmium from Food Contact Articles – Lip and Rim

Test Method: ASTM C927-80(Reapproved 2019)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	60A	60B	60C	60D	60E	60F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

Specimen No.	61A	61B	61C	61D	61E	61F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

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

Remark:
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DETAILED RESULTS:

Client’s Requirement, Leachable Lead and Cadmium from Food Contact Articles – Lip and Rim

Test Method: ASTM C927-80(Reapproved 2019)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	62A	62B	62C	62D	62E	62F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

Specimen No.	63A	63B	63C	63D	63E	63F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

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

Remark:
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DETAILED RESULTS:

Client’s Requirement, Leachable Lead and Cadmium from Food Contact Articles – Lip and Rim

Test Method: ASTM C927-80(Reapproved 2019)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	64A	64B	64C	64D	64E	64F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

Specimen No.	65A	65B	65C	65D	65E	65F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

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

Remark:
 The limit is quoted from Society of Glass & Ceramic Decorated Products.

DETAILED RESULTS:

Client’s Requirement, Leachable Lead and Cadmium from Food Contact Articles – Lip and Rim

Test Method: ASTM C927-80(Reapproved 2019)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	66A	66B	66C	66D	66E	66F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	80	80	80	80	80	80		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

Specimen No.	67A	67B	67C	67D	67E	67F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

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

Remark:
 The limit is quoted from Society of Glass & Ceramic Decorated Products.

DETAILED RESULTS:

Client’s Requirement, Leachable Lead and Cadmium from Food Contact Articles – Lip and Rim

Test Method: ASTM C927-80(Reapproved 2019)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	68A	68B	68C	68D	68E	68F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

Specimen No.	69A	69B	69C	69D	69E	69F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

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

Remark:
 The limit is quoted from Society of Glass & Ceramic Decorated Products.

DETAILED RESULTS:

Client’s Requirement, Leachable Lead and Cadmium from Food Contact Articles – Lip and Rim

Test Method: ASTM C927-80(Reapproved 2019)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	70A	70B	70C	70D	70E	70F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

Specimen No.	71A	71B	71C	71D	71E	71F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	100	100	100	100	100	100		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

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

Remark:
 The limit is quoted from Society of Glass & Ceramic Decorated Products.

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.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	75	31	22	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17	18+19	20	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	90
Conclusion	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:

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.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	75	31	22	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17	18+19	20	21+22+23	24+25+26	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
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	27+28	32+33	34+35	43	45	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
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	46	51	72	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	44	ND	---	---	90
Conclusion	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 ppm)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Black coating	On body (SM-6697BK/ SM-6686BK styles)
2	Grey coating	On outer body (SM-6788SI style)
3	White coating	On outer body (SM-6788WH/ SM6686WH styles)
4	Blue coating	On outer body (SM-6788LBL/ SM-6475RYL styles)
5	Translucent lacquer	On inner body (all SM6788/ SM6867 styles)
6	Dark grey coating	On outer body (SM-6867CA style)
7	Dull blue coating	On outer body (SM-6867RYL style)
8	Pale grey coating	On outer body (SM-6867SL style)
9	Matt grey coating	On outer body (SM-6686GY style)
10	Navy coating	On outer body (SM-6686NY style)
11	Orange coating	On outer body (SM-6686OR style)
12	Matt blue coating	On outer body (SM-6686RYL style)
13	Lime green coating	On outer body (SM-6686LM style)
14	Turquoise coating	On outer body (SM-6686TQ style)
15	Red coating	On outer body (SM-6686RD/ SM-6899RD styles)
16	Black/ white inseparable coating	On outer body (SM-6921BK style)
17	Off grey/ white inseparable coating	On outer body (SM-6921GY style)
18	Deep green/ white inseparable coating	On outer body (SM-6921HG style)
19	Navy/ white inseparable coating	On outer body (SM-6921NY style)
20	White/ off black inseparable coating	On outer body (SM-6921WH style)

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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
21	Black plastic	Lid (SM-6697BK/ all SM-6788/ SM-6475RYL styles); Neck of bottle body (SM-6867CA style)
22	Blue plastic (PP-homo)	Neck of bottle body (SM-6867RYL style)
23	White plastic (PP-homo)	Neck of bottle body (SM-6867SL style)
24	Clear plastic	Lid (all SM-6867/ all SM-6686/ all SM-6921/ SM-6857CL styles); Body (SM-6857CL style)
25	Dull clear plastic (Tritan)	Slider (all SM-6686/ all SM-6921 styles)
26	Transparent plastic (AS)	Spout (SM-6697BK style)
27	Translucent plastic (PE)	Straw (SM-6697BK style)
28	Dull black plastic (PP-co)	Lid (SM-6899RD style)
29	Black plastic (PP-homo)	Lid (SM-6697BK/ all SM-6788/ SM-6475RYL styles)
30	Clear plastic (AS)	Lid (all SM-6867 styles)
31	Clear plastic (AS)	Lid (all SM-6686/ all SM-6921/ SM-6857CL styles); Body (SM-6857CL style)
32	Translucent soft plastic	Gasket of lid/ spout/ vent hole (SM-6697BK style); Gasket (all SM-6788/ all SM-6686/ SM-6899RD/ all SM-6921/ SM-6857CL/ SM-6475RYL styles)
33	Black soft plastic	Holder ring/ gasket of lid (SM-6867CA style)
34	Blue soft plastic	Holder ring/ gasket of lid (SM-6867RYL style)
35	White soft plastic	Holder ring/ gasket of lid (SM-6867SL style)
36	Translucent soft plastic (Silicone)	Gasket of lid/ spout/ vent hole (SM-6697BK style)
37	Translucent soft plastic (Silicone)	Gasket (all SM-6788 styles)
38	Translucent soft plastic (Silicone)	Gasket (all SM-6686/ all SM-6921 styles)
39	Translucent soft plastic (Silicone)	Gasket (SM-6899RD style)
40	Black soft plastic (Silicone)	Gasket of lid (SM-6867CA style)

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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
41	Blue soft plastic (Silicone)	Gasket of lid (SM-6867RYL style)
42	White soft plastic (Silicone)	Gasket of lid (SM-6867SL style)
43	Silvery metal	Body (SM-6697BK style); Outer body (all SM-6686/ SM-6899RD/ all SM-6921/ SM-6475RYL styles); Outer lid (SM-6475RYL style)
44	Silvery metal (SS #201)	Body (SM-6697BK style)
45	Dull silvery metal (SS #304)	Inner body (all SM-6686/ SM-6899RD/ all SM-6921/ SM-6475RYL styles)
46	Deep silvery metal	Body of bottle (all SM-6788/ all SM-6867 styles)
47	Bright silvery metal	Body/ moving part of carabiner (all SM-6788/ SM-6899RD styles)
48	Matt silvery metal	Rivet of carabiner (all SM-6788/ SM-6899RD styles)
49	Off silvery metal	Ring of carabiner (all SM-6788 styles)
50	Flat silvery metal	Ring of carabiner (SM-6899RD style)
51	Golden plated silvery metal	Nuts of bottle neck (all SM-6788 styles)
52	Translucent printed deep silvery metal with golden plated silvery metal (Aluminum)	Interior of bottle (all SM-6788 styles)
53	Translucent printed deep silvery metal (Aluminum)	Interior of bottle (all SM-6867 styles)
54	Grey printed deep silvery metal	Lip and rim of bottle (SM-6788SI style)
55	White printed deep silvery metal	Lip and rim of bottle (SM-6788WH style)
56	Blue printed deep silvery metal	Lip and rim of bottle (SM-6788LBL style)
57	Black printed silvery metal	Lip and rim of bottle (SM-6686BK style)
58	Matt grey printed silvery metal	Lip and rim of bottle (SM-6686GY style)
59	Navy printed silvery metal	Lip and rim of bottle (SM-6686NY style)
60	Orange printed silvery metal	Lip and rim of bottle (SM-6686OR style)

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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
61	Matt blue printed silvery metal	Lip and rim of bottle (SM-6686RYL style)
62	Lime green printed silvery metal	Lip and rim of bottle (SM-6686LM style)
63	Turquoise printed silvery metal	Lip and rim of bottle (SM-6686TQ style)
64	Red printed silvery metal	Lip and rim of bottle (SM-6686RD style)
65	White printed silvery metal	Lip and rim of bottle (SM-6686WH style)
66	Red printed silvery metal	Lip and rim of bottle (SM-6899RD style)
67	Black/ white printed silvery metal	Lip and rim of bottle (SM-6921BK style)
68	Off grey/ white printed silvery metal	Lip and rim of bottle (SM-6921GY style)
69	Deep green/ white printed silvery metal	Lip and rim of bottle (SM-6921HG style)
70	Navy/ white printed silvery metal	Lip and rim of bottle (SM-6921NY style)
71	White/ off black printed silvery metal	Lip and rim of bottle (SM-6921WH style)
72	Dull translucent plastic (PP-co)	Straw/ ring of straw (SM-6857CL style)
73	Translucent soft plastic (Silicone)	Gasket (SM-6857CL style)
74	Translucent soft plastic (Silicone)	Gasket (SM-6475RYL style)

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