

PASS

SUBMITTER

PACIFIC MARKET INTERNATIONAL, LLC
 2401 ELLIOTT AVENUE, 4TH FLOOR, SEATTLE, WA, USA 98121



**STYLE
NUMBER**

/

**PRODUCT
DESCRIPTION**

(STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H. GREEN
 (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.LAKE
 (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – M.BLACK
 (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE - CHARCOAL
 (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.CLAY
 (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.SILVER

**EXECUTIVE
SUMMARY**

The sample(s) MEET all the tested requirement(s)

REMARKS

/

**TECHNICAL
QUESTIONS**

SIGNATURES

**GENERAL
INFORMATION**

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Test Report: (6622)223-0565 PACIFIC MARKET INTERNATIONAL

Received Date: Aug.11, 2022
Report Date: Aug.30, 2022

FACTORY NAME	ZHEJIANG HAERS VACUUM CONTAINERS CO., LTD.
SUBMISSION TYPE	/
SAMPLE NAME	(STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H. GREEN (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.LAKE (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – M.BLACK (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE - CHARCOAL (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.CLAY (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.SILVER
MATERIAL	1.LINNER SUS304 2.CUP LINER PP3080 3.STOPPER BODY BU510 4.STOPPER SEAL SILICONE KE-951U
SAMPLE #	/
BASE MATERIAL	/
DESCRIPTION (BLEND %, ETC.)	/
COLOR	1.BODY H.GREEN COLOR 5625C 2.BODY H.LAKE COLOR 16-4134TPG 3.BODY M.BLACK COLOR JM1270 4.BODY CHARCOAL 19-0203TPG 5.BODY H,CLAY COLOR 18-1354 TPG 6.BODY HAMMERTONE SILVER COLOR 15-4305TPG
PMS#	/
PROJECT NAME	(STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H. GREEN (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.LAKE (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – M.BLACK (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE - CHARCOAL (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.CLAY (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.SILVER
ITEM/STYLE NUMBER	20-03811-001 20-03811-002 20-03811-003 20-03811-004 20-03811-005 20-03811-006
SAMPLE REQUEST FORM NUMBER	032174
NUMBER OF SAMPLES	/
SKU NUMBER	/
COUNTRY OF ORIGIN	CHINA
COUNTRY OF DISTRIBUTION	NORTH AMERICA
PRODUCT BRAND CODE	STAN
PO NUMBER	/
REOCURRING TEST CODE	SMU
TEST REQUESTED	/
PROTOCOL NUMBER	/
FAIL RETEST	NO



**BUREAU
VERITAS**

Test Report: (6622)223-0565 PACIFIC MARKET INTERNATIONAL

Received Date: Aug.11, 2022
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CHARGE VENDOR	NO
PREVIOUS REPORT NUMBER	/
RETEST SAMPLE NUMBER	/

TEST RESULTS FOR (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H. GREEN
(STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.LAKE
(STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – M.BLACK
(STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE - CHARCOAL
(STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.CLAY
(STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.SILVER

TEST REQUIRED	PASS	FAIL	DATA	REMARK
Washability Test for Painted products that are Dishwasher Safe	X			See the test results
Logo/Artwork Adhesion test: Tape Method	X			See the test results
Sunscreen/Lotion Resistance Test (Silk screen printed products only)	X			See the test results
Total lead content in surface coatings	X			See the test results
Total cadmium content in surface coatings			X	See the test results
California Prop 65 (Leachable cadmium & lead)	X			See the test results
FDA: 21CFR 177.1520	X			See the test results
FDA: 21CFR 177.1210	X			See the test results
Bisphenol- A (BPA) content	X			See the test results

NOTE:

The client specified the test items and test methods.

TEST RESULTS

SAMPLE DESCRIPTION : (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H. GREEN (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.LAKE (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – M.BLACK (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE - CHARCOAL (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.CLAY (STANLEY) FLATBUSH 1.5QT RSS VACUUM BOTTLE – H.SILVER					
TEST PROPERTY	TEST METHOD	REQUIREMENT	SAMPLE SIZE	TEST RESULT	RATING
Washability Test for Painted products that are Dishwasher Safe	PMI Method	Dishwasher Test: The product must resist (25 Starbucks, 25 Aladdin, 5 Aladdin Day-Today, 5 Stanley) dishwasher cycles on bottom rack in a standard household dishwasher at a temperature between 65°-80°C (149°-176°F) using standard powered powder for a full wash, rinse and dry cycle time for approximately 90 min. See approval requirements tab for number of cycles. Results Criteria: Note noticeable color changes; peeling of paint or logo is not allowed. No distorting, cracking or chipping of paint is acceptable.	2pcs/color	No failure	PASS
		Post-Washing X-Hatch testing (SS Only): When samples are dry, must pass paint adhesion testing using the Tape Method after hand wash testing (ASTM 3359-09, Method B). Passing classification (or grade): 4B (for liquid paint) 5B (for powder coat).	2pcs/color	No failure Grade: 5B	PASS
Logo/Artwork Adhesion test: Tape Method	PMI Method	Apply tape (3M 810, 1.9cm (3/4in) width) to printed logos and/or Artwork; press down on tape with finger. Remove tape with one quick motion. Inspect tape. Results Criteria: No ink is allowed to come off on to tape.	2pcs/color	No failure	PASS
Sunscreen/Lotion Resistance Test (Silk screen printed products only)	PMI Method	Spread a layer of sunscreen with an SPF of 30 or greater onto the surface of the product. Allow the product to sit at room temperature, 18°-24°C (64° -75.2°F) , for 30minutes. Wipe the sunscreen away with a dry paper towel, applying ~1 Kg.f (2.2 lb.f) perpendicular to the surface. Wipe for at least 50mm down the length of the body and back. Repeat wiping motion for 10 strokes. Results Criteria: No ink is allowed to come off onto the paper towel and print must not be tacky/sticky. [Note results for non-screen printed inks/paints]	2pcs/color	No failure	PASS

TEST PROPERTY	TEST METHOD	REQUIREMENT	SAMPLE SIZE	TEST RESULT	RATING
Analytical					
Total lead content in surface coatings	16CFR 1303	Must pass 16CFR1303Lead in Surface Coating test. Not in excess of 0.009% Pb by weight is acceptable.	2g	Grey/dark grey coating on metal body: Less than 10ppm Blue/dark grey coating on metal body: Less than 10ppm Dark grey /black coating on metal body: Less than 10ppm Green/dark green coating on metal body: Less than 10ppm Red/brown coating on metal body: Less than 10ppm Black / grey coating on metal body: Less than 10ppm	PASS
Total cadmium content in surface coatings	EPA 3051A:2007 modified/ acid digestion, ICP analysis	As per client's requirement. (Until legislation is enacted, this is a client requirement.)	2g	Grey/dark grey coating on metal body: Less than 10ppm Blue/dark grey coating on metal body: Less than 10ppm Dark grey /black coating on metal body: Less than 10ppm Green/dark green coating on metal body: Less than 10ppm Red/brown coating on metal body: Less than 10ppm Black / grey coating on metal body: Less than 10ppm	DATA
California Prop 65 (Leachable cadmium & lead)	ASTM C738-94 (Reapproved 2020)	See the remark	/	See the remark	PASS
Polypropylene Copolymer	FDA: 177.1520	See the remark	/	See the remark	PASS
Silicone	FDA: 177.1210	See the remark	/	See the remark	PASS

Remark: FDA Food simulation & California Proposition 65 test results

Test Item 1: CUP LINER GREY COLOR, PP3080

Sample	Leached volume(mL)	Results	Requirements
1	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.07 ; Pb : 0.5 ppm. Max. FDA 7117.06 ; Cd : 0.5 ppm. Max. California Prop. 65 Pb : 0.1 ppm. Max. Cd : 0.189 ppm. Max
2	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
3	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
4	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
5	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
6	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
7	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
8	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
9	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
10	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
11	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
12	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
Average	-	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	

Test Item 2: STOPEER BODY GREY COLOR,BU510

Sample	Leached volume(mL)	Results	Requirements
1	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.07 ; Pb : 0.5 ppm. Max. FDA 7117.06 ; Cd : 0.5 ppm. Max. California Prop. 65 Pb : 0.1 ppm. Max. Cd : 0.189 ppm. Max
2	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
3	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
4	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
5	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
6	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
7	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
8	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
9	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
10	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
11	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
12	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
Average	-	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	

Test Item 3: CUP LINER BLUE COLOR, PP3080

Sample	Leached volume(mL)	Results	Requirements
1	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.07 ; Pb : 0.5 ppm. Max. FDA 7117.06 ; Cd : 0.5 ppm. Max. California Prop. 65 Pb : 0.1 ppm. Max. Cd : 0.189 ppm. Max
2	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
3	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
4	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
5	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
6	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
7	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
8	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
9	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
10	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
11	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
12	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
Average	-	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	

Test Item 4: STOPEER BODY BLUE COLOR,BU510

Sample	Leached volume(mL)	Results	Requirements
1	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.07 ; Pb : 0.5 ppm. Max.
2	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
3	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.06 ; Cd : 0.5 ppm. Max.
4	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
5	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	California Prop. 65 Pb : 0.1 ppm. Max. Cd : 0.189 ppm. Max
6	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
7	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
8	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
9	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
10	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
11	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
12	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
Average	-	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	

Test Item 5: CUP LINER GREEN COLOR, PP3080

Sample	Leached volume(mL)	Results	Requirements
1	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.07 ; Pb : 0.5 ppm. Max.
2	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
3	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.06 ; Cd : 0.5 ppm. Max.
4	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
5	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	California Prop. 65 Pb : 0.1 ppm. Max. Cd : 0.189 ppm. Max
6	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
7	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
8	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
9	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
10	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
11	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
12	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
Average	-	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	

Test Item 6: STOPEER BODY GREEN COLOR,BU510

Sample	Leached volume(mL)	Results	Requirements
1	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.07 ; Pb : 0.5 ppm. Max.
2	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
3	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.06 ; Cd : 0.5 ppm. Max.
4	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
5	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	California Prop. 65 Pb : 0.1 ppm. Max. Cd : 0.189 ppm. Max
6	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
7	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
8	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
9	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
10	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
11	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
12	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
Average	-	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	

Test Item 7: CUP LINER RED COLOR, PP3080

Sample	Leached volume(mL)	Results	Requirements
1	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.07 ; Pb : 0.5 ppm. Max.
2	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
3	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
4	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.06 ; Cd : 0.5 ppm. Max.
5	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
6	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
7	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	California Prop. 65 Pb : 0.1 ppm. Max. Cd : 0.189 ppm. Max
8	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
9	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
10	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
11	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
12	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
Average	-	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	

Test Item 8: STOPEER BODY RED COLOR,BU510

Sample	Leached volume(mL)	Results	Requirements
1	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.07 ; Pb : 0.5 ppm. Max.
2	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
3	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
4	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.06 ; Cd : 0.5 ppm. Max.
5	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
6	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
7	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	California Prop. 65 Pb : 0.1 ppm. Max. Cd : 0.189 ppm. Max
8	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
9	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
10	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
11	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
12	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
Average	-	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	

Test Item 9: CUP LINER BLACK COLOR, PP3080

Sample	Leached volume(mL)	Results	Requirements
1	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.07 ; Pb : 0.5 ppm. Max.
2	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
3	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
4	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.06 ; Cd : 0.5 ppm. Max.
5	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
6	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
7	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	California Prop. 65 Pb : 0.1 ppm. Max. Cd : 0.189 ppm. Max
8	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
9	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
10	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
11	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
12	210	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
Average	-	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	

Test Item 10: STOPEER BODY BLACK COLOR,BU510

Sample	Leached volume(mL)	Results	Requirements
1	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	FDA 7117.07 ; Pb : 0.5 ppm. Max. FDA 7117.06 ; Cd : 0.5 ppm. Max. California Prop. 65 Pb : 0.1 ppm. Max. Cd : 0.189 ppm. Max
2	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
3	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
4	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
5	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
6	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
7	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
8	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
9	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
10	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
11	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
12	329	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	
Average	-	Pb : Less than 0.05 ppm , Cd : Less than 0.01 ppm	

Note: mL = milliliter

Method: ASTM C738-94 (Reapproved 2020). The lead and cadmium contents are determined by Atomic Absorption Spectrophotometer.

Remark: 1. *Warning is required when the lead or cadmium content exceeds the limit.
2. If shipment is less than 2000, 6 units are tested. If shipment is greater than or equal to 2000, 12 units are tested.

Results of FDA 21 CFR 177.1520

Client claimed material: Polypropylene Copolymer

Test Item 1: CUP LINER GREY COLOR,PP3080

Test Item	Unit	Result	Requirements
Density	G / cc	0.887	0.850-1.00
n-Hexane Extractives	%	2.9	≤ 5.5
Xylene Extractives	%	14.9	≤ 30

Test Item 2 : STOPPER BODY GREY COLOR, BU510

Test Item	Unit	Result	Requirements
Density	G / cc	0.886	0.850-1.00
n-Hexane Extractives	%	4.2	≤ 5.5
Xylene Extractives	%	11.2	≤ 30

Test Item 3: CUP LINER BLUE COLOR,PP3080

Test Item	Unit	Result	Requirements
Density	G / cc	0.887	0.850-1.00
n-Hexane Extractives	%	3.4	≤ 5.5
Xylene Extractives	%	14.7	≤ 30

Test Item 4 : STOPPER BODY BLUE COLOR, BU510

Test Item	Unit	Result	Requirements
Density	G / cc	0.885	0.850-1.00
n-Hexane Extractives	%	4.0	≤ 5.5
Xylene Extractives	%	12.7	≤ 30

Test Item 5: CUP LINER GREEN COLOR,PP3080

Test Item	Unit	Result	Requirements
Density	G / cc	0.888	0.850-1.00
n-Hexane Extractives	%	4.5	≤ 5.5
Xylene Extractives	%	13.3	≤ 30

Test Item 6 : STOPPER BODY GREEN COLOR, BU510

Test Item	Unit	Result	Requirements
Density	G / cc	0.885	0.850-1.00
n-Hexane Extractives	%	4.5	≤ 5.5
Xylene Extractives	%	10.0	≤ 30



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Test Item 7: CUP LINER RED COLOR,PP3080

Test Item	Unit	Result	Requirements
Density	G / cc	0.886	0.850-1.00
n-Hexane Extractives	%	3.3	≤ 5.5
Xylene Extractives	%	15.3	≤ 30

Test Item 8 : STOPPER BODY RED COLOR, BU510

Test Item	Unit	Result	Requirements
Density	G / cc	0.887	0.850-1.00
n-Hexane Extractives	%	5.0	≤ 5.5
Xylene Extractives	%	11.0	≤ 30

Test Item 9: CUP LINER BLACK COLOR,PP3080

Test Item	Unit	Result	Requirements
Density	G / cc	0.886	0.850-1.00
n-Hexane Extractives	%	4.0	≤ 5.5
Xylene Extractives	%	12	≤ 30

Test Item 10 : STOPPER BODY BLACK COLOR, BU510

Test Item	Unit	Result	Requirements
Density	G / cc	0.887	0.850-1.00
n-Hexane Extractives	%	3.9	≤ 5.5
Xylene Extractives	%	12.1	≤ 30

Method: U.S. FDA 21 CFR part 177.1520

Results of U.S. FDA 21 CFR 177.1210

Condition of use: C) Hot filled or pasteurized above 150°F

Extracting condition: Water (Fill boiling, cool to 100 °F), Heptane (120 °F, 15 min.)

Condition of use: D) Hot filled or pasteurized below 150°F

Extracting condition: 8% Alcohol (150 °F, 2 hr.)

Test Item 1: SILICONE RING BLACK COLOR,SILICONE

Test Item	Unit	Result	Requirements
Chloroform- Soluble Extractives			
Distilled Water	ppm	<10	≤ 50
n-Heptane	ppm	<10	≤ 250
8% Alcohol	ppm	<10	≤ 50



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Note: ppm = parts per million
“<” = less than
“≤” = less than or equal to

Method: U.S. FDA 21 CFR 177.1210

Remark: Maximum extractives tolerances of different types of closure-sealing gasket composition

Type of closure-sealing gasket composition	Maximum Extractives Tolerances (in ppm)		
	Chloroform fraction of water extractives	Chloroform fraction of heptane extractives	Chloroform fraction of alcohol extractives
1. 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	50	500	50
2. Performed overall discs or annular rings of plasticized polymers, including unvulcanized natural or synthetic rubber	50	250	50
3. Performed overall discs or annular rings of vulcanized plasticized polymers, including natural or synthetic rubber	50	50	50
4. Performed overall discs or annular rings of polymeric or resinous-coated paper, paperboard, plastic, or metal foil substrates	50	250	50
5. Closures with sealing gaskets or sealing compositions as described in 1, 2, 3 and 4, and including paper, paperboard, and glassine used for dry foods only	Not applicable	Not applicable	Not applicable

Bisphenol- A (BPA) content

(Test Method: Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer)

Element	Test Items	Result (mg/kg)
Bisphenol-A (BPA)	Test Item 1: GREY/DARK GREY COLOR COATING ON BODY	ND
	Test Item 2: DARK GREY PLASTIC LID	ND
	Test Item 3: DARK GREY PLASTIC STOPPER BODY	ND
	Test Item 4: DARK GREY PLASTIC HANDLE	ND
	Test Item 5: DARK GREY SOFT PLASTIC INNER HANDLE	ND
	Test Item 6: BLUE/DARK BLUE COLOR COATING ON BODY	ND
	Test Item 7: DARK BLUE PLASTIC LID	ND
	Test Item 8: DARK BLUE PLASTIC STOPPER BODY	ND
	Test Item 9: DARK BLUE PLASTIC HANDLE	ND
	Test Item 10: DARK BLUE SOFT PLASTIC INNER HANDLE	ND
	Test Item 11: DARK GREY/BLACK COLOR COATING ON BODY	ND
	Test Item 12: GREEN/DARK GREEN COLOR COATING ON BODY	ND
	Test Item 13: DARK GREEN PLASTIC LID	ND
	Test Item 14: DARK GREEN PLASTIC STOPPER BODY	ND
	Test Item 15: DARK GREEN PLASTIC HANDLE	ND
	Test Item 16: DARK GREEN SOFT PLASTIC INNER HANDLE	ND
	Test Item 17: RED/BROWN COLOR COATING ON BODY	ND
	Test Item 18: BROWN PLASTIC LID	ND
	Test Item 19: BROWN PLASTIC STOPPER BODY	ND
	Test Item 20: BROWN PLASTIC HANDLE	ND
	Test Item 21: BROWN SOFT PLASTIC INNER HANDLE	ND
	Test Item 22: BLACK /GREY COLOR COATING ON BODY	ND
	Test Item 23: BLACK PLASTIC LID	ND

	Test Item 24: BLACK PLASTIC STOOPER BODY	ND
	Test Item 25: BLACK PLASTIC HANDLE	ND
	Test Item 26: BLACK SOFT PLASTIC INNNER HANDLE	ND
	Test Item 27: BLACK SILICONE SEAL	ND

Note: mg/kg = milligram per kilogram
ND= Not detected (concentration below 0.1 mg/kg)
Client's requirement = 0.1 mg/kg

END OF REPORT