

## TEST REPORT

Test Report # 22W-020624(A1) Date of Report Issue: February 2, 2023  
Date of Sample Received: December 20, 2022 Pages: Page 1 of 17

### CLIENT INFORMATION:

Company: Polyconcept GBS  
Recipient: Kathy Lu  
Recipient Email: kathy.lu@polyconceptgbs.com



### SAMPLE INFORMATION:

Description: Marka Copper Vac Tumbler w/ SS straw 20oz  
Article No.: 1628-82BK/WH Purchase Order Number: 1934942/1934943  
Factory No.: 10942 Toy Co./Agency: -  
Vendor No.: 10531 Country of Origin: China  
Country of Distribution: Canada, United States Labeled Age Grade: -  
Quantity Submitted: 6 sets per color Requested Age Grade: -  
Testing Period: 01/03/2023-01/16/2023 Tested Age Grade: -

### OVERALL RESULT:

**PASS**

Please refer to the following pages for test result summary and appropriate notes.

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QIMA (HANGZHOU) TESTING CO., LTD.

*Jeremy Xu*

*Ada Guo*

Jeremy Xu  
Chemical Laboratory Supervisor

Ada Guo  
Assist Physical Laboratory Manager



QIMA (Hangzhou) Testing Co., Ltd. • Room 401,4-5/F, Building 1, No.1213 Huoju South Road, Puyan Subdistrict, Binjiang District, Hangzhou, China  
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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	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content
PASS	Client's requirement, Bisphenol A content
PASS	Client's Requirement, Phthalates content
PASS	FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers
PASS	California Proposition 65, Lead and Cadmium – External Decoration
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets
PASS	FDA 21 CFR 177.1240, 1,4-Cyclohexylene dimethylene terephthalate and 1,4-cyclohexylene dimethyleneisophthalate copolymer
PASS	FDA 21 CFR 177.2600, Rubber
PASS	16 CFR 1500.49 As received sharp edge
PASS	19 CFR 134.11, Country of Origin
PASS	Marking of Imported Goods Order, (C.R.C., c.535), Country of Origin



**DETAILED RESULTS:**

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

Test Method: CPSC-CH-E1003-09.1  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+5	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	<b>90</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*  
 mg/kg = Milligrams per kilogram  
 LT = Less than  
 ND = Not detected (Reporting Limit = 15 mg/kg)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1+5	22W-020624	1+5	January 30, 2023



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**DETAILED RESULTS:**

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

Test Method: CPSC-CH-E1003-09.1  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+5	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	90
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*  
 mg/kg =Milligrams per kilogram  
 LT = Less than  
 ND = Not detected (Reporting Limit = 15mg/kg)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

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

**Data Consolidation Reference:**

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1+5	22W-020624	1+5	January 30, 2023



**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.	3+4+10	7	8	9	---	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	---	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	---	

*Note:*

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit =15 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.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3+4+10	22W-020624	3+4+10	January 30, 2023
7	22W-020624	7	January 30, 2023
8	22W-020624	8	January 30, 2023
9	22W-020624	9	January 30, 2023



**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+5	3+4+10	7	8	9	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	<b>90</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

*Note:*  
 mg/kg=Milligrams per kilogram)  
 LT = Less than  
 ND = Not detected (Reporting Limit = 15 mg/kg)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1+5	22W-020624	1+5	January 30, 2023
3+4+10	22W-020624	3+4+10	January 30, 2023
7	22W-020624	7	January 30, 2023
8	22W-020624	8	January 30, 2023
9	22W-020624	9	January 30, 2023



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**DETAILED RESULTS:**

**Client's requirement, Bisphenol A content**

Test Method: In-House Method  
 Analytical Method: Liquid Chromatography-Mass Spectrometer Mass Spectrometer (LC-MS/MS)

Specimen No.		3	4	10	---	Client's limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	---	<b>Not Detected</b>
<b>Conclusion</b>		PASS	PASS	PASS	---	

*Note:*  
 mg/kg=milligram per kilogram  
 ND=Not Detected(Reporting limit = 1.0mg/kg)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	22W-020624	3	January 30, 2023
4	22W-020624	4	January 30, 2023
10	22W-020624	10	January 30, 2023



**DETAILED RESULTS:**

**Client's Requirement, Phthalates content**

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

Specimen No.		1+5	3+4+10	9	---	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	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	---	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	---	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	---	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	---	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	---	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	---	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	---	1000
<b>Conclusion</b>		PASS	PASS	PASS	---	

**Note:**  
 mg/kg = Milligrams per kilogram  
 LT = Less than  
 ND = Not detected (Reporting Limit = 150 mg/kg)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

**Data Consolidation Reference:**

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1+5	22W-020624	1+5	January 30, 2023
3+4+10	22W-020624	3+4+10	January 30, 2023
9	22W-020624	9	January 30, 2023



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**DETAILED RESULTS:**

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

Test Method: SN/T 2718-2010  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	7	---	---	---	---	Limit (% m/m)
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	
Total Chromium (Cr)	18.34	---	---	---	---	<b>GT 16</b>
<b>Conclusion</b>	PASS	---	---	---	---	

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

*Remark:*  
 The limit is quoted from ANSI/NSF 51-1997 Section 7.1.2.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
7	22W-020624	7	January 30, 2023



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**DETAILED RESULTS:**

**California Proposition 65, Lead and Cadmium – External Decoration**

Test Method: NIOSH Method 9100  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry/Inductively Coupled Plasma-Mass Spectrometry

Specimen No.	2	6	---	---	---	Limit (µg/article)
Test Item	Result (µg/article)	Result (µg/article)	Result (µg/article)	Result (µg/article)	Result (µg/article)	
Lead (Pb)	ND	ND	---	---	---	<b>1.0</b>
Cadmium (Cd)	ND	ND	---	---	---	<b>4.0</b>
<b>Conclusion</b>	PASS	PASS	---	---	---	

*Note:*  
 µg/article = Micrograms per article  
 LT = Less than  
 ND = Not detected (Reporting Limit = 0.4 µg/article)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
2	22W-020624	2	January 30, 2023
6	22W-020624	6	January 30, 2023



**DETAILED RESULTS:**

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

Test Method: FDA 21 CFR 177.1210

Specimen No.			10	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/kg)	Fill boiling	Cooling to 100°F	ND	10	50
n-Heptane extractive (mg/kg)	120°F	0.25 hours	ND	10	50
8% Ethanol extractive (mg/kg)	Fill boiling	Cooling 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)

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.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
10	22W-020624	10	January 30, 2023



**DETAILED RESULTS:**

**FDA 21 CFR 177.1240, 1,4-Cyclohexylene dimethylene terephthalate and 1,4-cyclohexylene dimethyleneisophthalate copolymer**

Test Method: FDA 21 CFR 177.1240

Specimen No.			9	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (% m/m)	Reflux	2 hours	ND	<b>0.015</b>	<b>0.05</b>
Ethyl acetate extractive (% m/m)	Reflux	2 hours	0.4	<b>0.1</b>	<b>0.7</b>
n-hexane extractive (% m/m)	Reflux	2 hours	0.02	<b>0.015</b>	<b>0.05</b>
<b>Conclusion</b>			PASS		

*Note:*

Temp. = Temperature

% (m/m) = Percent by mass

LT = Less than

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

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
9	22W-020624	9	January 30, 2023



**DETAILED RESULTS:**

**FDA 21 CFR 177.2600, Rubber**

Test Method: FDA 21 CFR 177.2600

Specimen No.			4	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in <sup>2</sup> )	Reflux	First 7 hours	ND	2	20
Distilled water extractive (mg/in <sup>2</sup> )	Reflux	Succeeding 2 hours	ND	0.1	1
n-Hexane extractive (mg/in <sup>2</sup> )	Reflux	First 7 hours	ND	15	175
n-Hexane extractive (mg/in <sup>2</sup> )	Reflux	Succeeding 2 hours	1.0	0.4	4
<b>Conclusion</b>			PASS		

**Note:**

Temp. = Temperature

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 177.2600 (e) and 177.2600 (f).

**Data Consolidation Reference:**

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
4	22W-020624	4	January 30, 2023



**DETAILED RESULTS:**

**16 CFR 1500.49 As received sharp edge**

Test	Observation	Conclusion
Sharp Edges	No Sharp edge.	PASS

Remark: Only rigid straws are tested according to customer requirements.

**19 CFR 134.11, Country of Origin**

Test	Observation	Conclusion
Country of Origin	Present on packaging and can be read easily by consumer at the point of sale	PASS

**Marking of Imported Goods Order, (C.R.C., c.535), Country of Origin**

Section	Requirement	Conclusion
2	Country of Origin Markings	PASS



**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Black coating	Exterior (1628-82BK)
2	Black coated silvery metal	Exterior (1628-82BK)
3	Black soft plastic	Sealing plug/Straw sleeve (1628-82BK)
4	Grey soft plastic	Sealing plug/Straw sleeve (1628-82WH)
5	White coating	Exterior (1628-82WH)
6	White coated silvery metal	Exterior (1628-82WH)
7	Silvery metal	Interior/straw (1628-82BK/1628-82WH)
8	Silvery metal	Exterior (1628-82BK/1628-82WH)
9	Transparent plastic	Lid (1628-82BK/1628-82WH)
10	Translucent soft plastic	Sealing ring (1628-82BK/1628-82WH)



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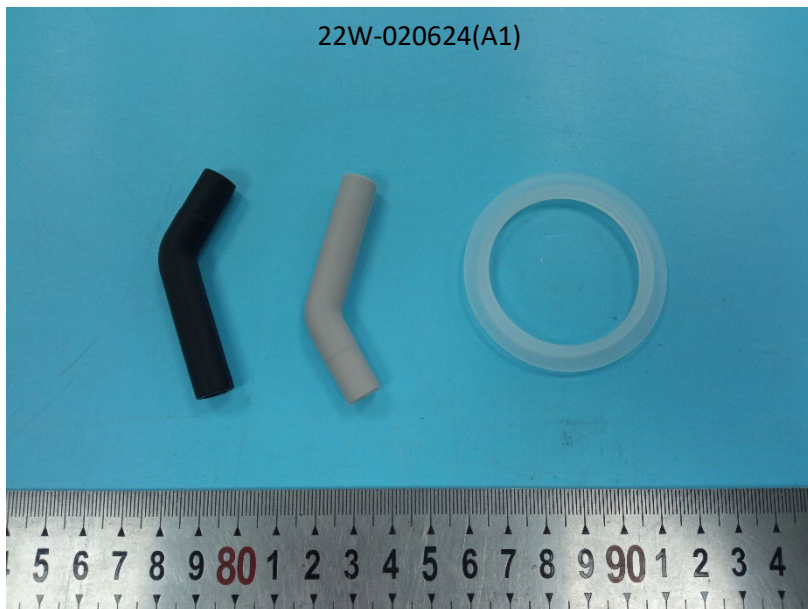
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**SAMPLE PHOTO:**





**SAMPLE PHOTO:**



-End Report-

