

TEST REPORT

Test Report # 20H-000758 Date of Report Issue: March 17, 2020
Date of Sample Received: February 18, 2020 Pages: Page 1 of 22

CLIENT INFORMATION:

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



SAMPLE INFORMATION:

Description: HydraCoach® BPA Free Tritan™ Sport Bottle
Article No.: 1625-94 CL Purchase Order Number: 1809378
Factory No.: - Toy Co./Agency: -
Vendor No.: 11530 Country of Origin: China
Country of Distribution: United States, Canada Labeled Age Grade: -
Quantity Submitted: 6 pcs + 1 lot (Parts, Paints) Requested Age Grade: -
Testing Period: 02/19/2020 – 03/02/2020 Tested Age Grade: -
03/04/2020 – 03/16/2020

OVERALL RESULT:

 **PASS**

Refer to page 2 for test result summary and appropriate notes.

QIMA Testing (HK) Limited



Loska Yeung Lok Ka
Assistant Manager, Chemical Laboratory

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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	Client's Requirement, Bisphenol A ^{#φ}
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, Polypropylene Copolymers
PASS	FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers
PASS	FDA 21 CFR 177.2470, Polyoxymethylene Copolymers [#]
PASS	FDA 21 CFR 177.2600, Rubber
PASS	FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Butadiene/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 B117-18 Resistance to Corrosion [#]
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	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	90
Conclusion	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	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	90
Conclusion	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.	6+7+8	9+10+11	12+13+14	15	16+17+18	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	

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	6+7+8	9+10+11	12+13+14	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	LT 380	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	LT 380	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	LT 380	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	LT 380	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	LT 380	ND	ND	ND	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	LT 380	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.		15	16+17+18	---	---	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:

Client's Requirement, Bisphenol A

Test Method: In-House Method^{#φ}
 Analytical Method: Liquid Chromatography with Fluorescence Detection,
 Liquid Chromatography-Mass Spectrometer (LC-MS),
 Liquid Chromatography Tandem Mass Spectroscopy LC/MS/MS

Specimen No.		4	5	6	7	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.		16	17	18	19	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.		20	---	---	---	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Bisphenol A (BPA)	80-05-7	ND	---	---	---	ND
Conclusion		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.		20	---	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	120°F	24 hours	ND	---	0.20	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.			18	---	RL (ppm)	Limit (ppm)
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	120°F	24 hours	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 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			5	---		
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.896	---	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	3.1	---	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	5.4	---	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 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No.		6		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 177.2470, Polyoxymethylene Copolymers

Test Method: FDA 21 CFR 177.2470[#]

Polyoxymethylene Copolymer in the Finished Form

Specimen No.			4	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in ²)	120°F	24 hours	0.167	0.1	0.5
Conclusion			PASS		

Polyoxymethylene Copolymer in the Form of Particles

Specimen No.			4	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (% m/m)	Reflux	6 hours	0.048	0.02	0.20
n-Heptane extractive (% m/m)	Reflux	6 hours	0.057	0.02	0.15
Conclusion			PASS		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in² = Milligrams per square inch

% m/m = Percent by mass

LT = Less than

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

Remark:

The specification is quoted from 21 CFR 177.2470 (d).

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DETAILED RESULTS:

FDA 21 CFR 177.2600, Rubber

Test Method: FDA 21 CFR 177.2600

Specimen No.			16	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in ²)	Reflux	First 7 hours	ND	2	20
Distilled water extractive (mg/in ²)	Reflux	Succeeding 2 hours	ND	0.1	1
Conclusion			PASS		

Specimen No.			17	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in ²)	Reflux	First 7 hours	ND	2	20
Distilled water extractive (mg/in ²)	Reflux	Succeeding 2 hours	ND	0.1	1
Conclusion			PASS		

Note:

Temp. = Temperature

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 177.2600 (e).

From Client's information, rubber article was intended for repeated use in contact with aqueous food only, therefore n-hexane extractive was not conducted.

DETAILED RESULTS:

FDA 21 CFR 177.2600, Rubber

Test Method: FDA 21 CFR 177.2600

Specimen No.		19		Result	RL	Limit
Test Item	Test Condition		Result			
	Temp.	Duration				
Distilled water extractive (mg/in ²)	Reflux	First 7 hours	ND	2	20	
Distilled water extractive (mg/in ²)	Reflux	Succeeding 2 hours	0.2	0.1	1	
Conclusion			PASS			

Note:

Temp. = Temperature

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 177.2600 (e).

From Client's information, rubber article was intended for repeated use in contact with aqueous food only, therefore n-hexane extractive was not conducted.

DETAILED RESULTS:

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

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

Acrylonitrile Monomers:

Specimen No.			7	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).

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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.	20A	20B	20C	20D	20E	20F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	5	5	5	5	5	5		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND	0.5
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	ND	3.0
Conclusion							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
X	Flatware (Average of 6)	0.5	3.0
	Large Hollowware (Any of 6)	0.25	1.0
	Small Hollowware (Any of 6)	0.5	2.0
	Pitchers (Any of 6)	0.25	0.5

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DETAILED RESULTS:

ASTM B117-18 Resistance to Corrosion

Test Method: ASTM B117-18#
 Analytical Method: Salt Spray (Fog) Apparatus
 Evaluation: In-house rating

Specimen no.:	20	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:

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	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	90
Conclusion	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.	1+2+3	6+7+8	16+17+18	---	---	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	---	---	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 mg/kg)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	White coating	On body
2	Blue coating	On computer
3	Grey coating	On computer
4	Black plastic (POM)	Wheel of impeller
5	White plastic (PP-co)	Spout
6	Transparent plastic (Tritan)	Body/ main shell of impeller
7	Off white plastic (ABS)	Inner lid
8	White plastic	Lid/ handle/ bezel of computer
9	Dull white plastic	Screw lid ring
10	Matt white plastic	Front main shell of computer
11	Grey plastic	Button of computer
12	Flat white plastic	Back main shell/ cover of battery compartment of computer
13	Blue plastic	Button of computer
14	Clear plastic	Screen of computer
15	Pale grey soft plastic	Plug of lid
16	Translucent soft plastic (Silicone)	Straw
17	Dull translucent soft plastic (Silicone)	Spout
18	Matt translucent soft plastic (Silicone)	Gasket
19	Blue soft plastic (Silicone)	Valve of impeller
20	Transparent printed grey metal	Magnet of impeller

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SAMPLE PHOTO:



-End Report-

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