

TEST REPORT

Test Report # 23W-012420 Date of Report Issue: September 13, 2023
Date of Sample Received: August 28, 2023 Pages: Page 1 of 15

CLIENT INFORMATION:

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



SAMPLE INFORMATION:

Description: Montego 21oz Sports Bottle/Hardy 30oz Tritan Sports Bottle
Article No.: SM-6799TPBL/TRE/TBK/ SM-6822CL Purchase Order Number: M000035782 / M000035781/ M000035783/ M000035784
Factory No.: 12876 Toy Co./Agency: -
Vendor No.: 10522 Country of Origin: China
Country of Distribution: Canada, United States Labeled Age Grade: -
Quantity Submitted: 6 pcs per style Requested Age Grade: -
Testing Period: 09/01/2023-09/13/2023 Tested Age Grade: -

OVERALL RESULT:

PASS

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

QIMA (HANGZHOU) TESTING CO., LTD.

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TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
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 21 CFR 177.1210, Closures with Sealing Gaskets
PASS	FDA 21 CFR 177.1520, Polypropylene Copolymers
PASS	FDA 21 CFR 177.2420, Polyester Resins, Cross-Linked
PASS	FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers
PASS	19 CFR 134.11-Country of Origin-Labeling Review



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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.	1+4+7	2+5+8	3+6+9	10	11	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	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	12+13	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	100
Conclusion	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.



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+4+7	10	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	---	---	---	90
Conclusion	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.



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.		1	2	4	5	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	ND	Not Detected
Conclusion		PASS	PASS	PASS	PASS	

Specimen No.		7	8	10	11	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	ND	Not Detected
Conclusion		PASS	PASS	PASS	PASS	

Specimen No.		13	---	---	---	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	---	---	---	Not Detected
Conclusion		PASS	---	---	---	

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



DETAILED RESULTS:

Client's Requirement, Phthalates content

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

Specimen No.		1+4+7	2+5+8	3+6+9	10+11	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-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	ND	1000
Conclusion		PASS	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.



DETAILED RESULTS:

Client's Requirement, Phthalates content

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

Specimen No.		12+13	---	---	---	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	---	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	---	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	---	---	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	---	---	---	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	---	---	---	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	---	---	---	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	---	---	---	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	---	---	---	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	---	---	---	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	---	---	---	1000
Conclusion		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.



DETAILED RESULTS:

FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210

Specimen No.			13	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
Conclusion			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.



DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			2	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Density (g/cc)	NA	NA	0.89	NA	0.85 – 1.00
n-Hexane extractive (% w/w)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours or total dissolved	3	1	30
Conclusion			PASS		

Specimen No.			5	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Density (g/cc)	NA	NA	0.89	NA	0.85 – 1.00
n-Hexane extractive (% w/w)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours or total dissolved	3	1	30
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:

The specification is quoted from 21 CFR 177.1520 (c) 3.1a.



DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			8	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Density (g/cc)	NA	NA	0.88	NA	0.85 – 1.00
n-Hexane extractive (% w/w)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours or total dissolved	3.2	1	30
Conclusion			PASS		

Specimen No.			11	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Density (g/cc)	NA	NA	0.87	NA	0.85 – 1.00
n-Hexane extractive (% w/w)	50°C	2 hours	0.5	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours or total dissolved	1.5	1	30
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:

The specification is quoted from 21 CFR 177.1520 (c) 3.1a.



DETAILED RESULTS:

FDA 21 CFR 177.2420, Polyester Resins, Cross-Linked

Test Method: FDA 21 CFR 177.2420

Specimen No.			14	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in ²)	Fill boiling	Cooling to 100°F	ND	0.01	0.1
n-Heptane extractive (mg/in ²)	120°F	0.25 hours	ND	0.01	0.1
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 177.2420 (c).



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

Specimen No.			4	RL	Limit
Test Simulant	Test Condition		Result		
	Temp.	Duration			
3% Acetic acid extractive (mg/in ²)	120°F	2 hours	ND	0.001	0.003
Conclusion			PASS		

Specimen No.			7	RL	Limit
Test Simulant	Test Condition		Result		
	Temp.	Duration			
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:

19 CFR 134.11-Country of Origin-Labeling Review

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



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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Transparent red plastic	Main body (SM-6799TRE)
2	Red plastic	Lid (SM-6799TRE)
3	Red soft plastic	Handle (SM-6799TRE)
4	Transparent black plastic	Main body (SM-6799TBK)
5	Black plastic	Lid (SM-6799TBK)
6	Black soft plastic	Handle (SM-6799TBK)
7	Transparent blue plastic	Main body (SM-6799TPBL)
8	Blue plastic	Lid (SM-6799TPBL)
9	Blue soft plastic	Handle (SM-6799TPBL)
10	Transparent plastic	Main body (SM-6822CL)
11	White plastic	Lid (SM-6822CL)
12	White soft plastic	Handle (SM-6822CL)
13	Translucent soft plastic	Sealing ring (all styles)
14	Transparent plastic	Interior (SM-6822CL)



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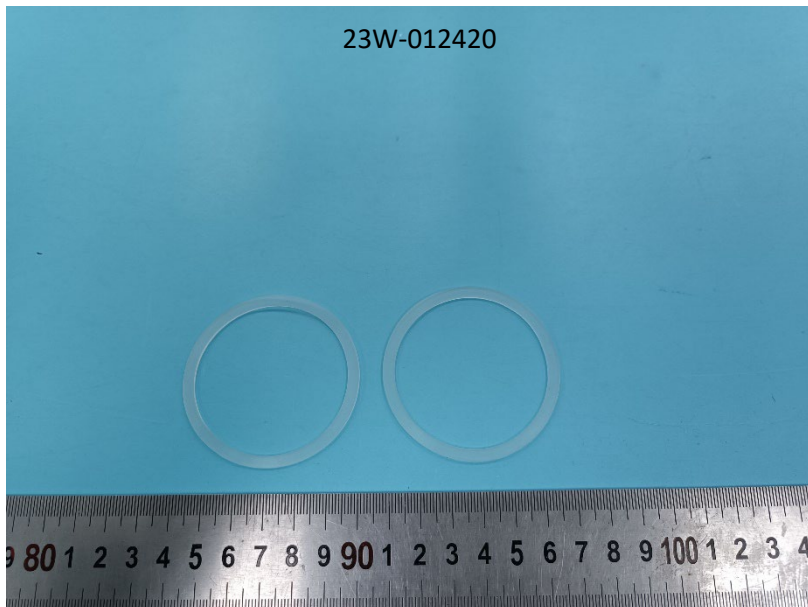
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SAMPLE PHOTO:



-End Report-

