

TEST REPORT

Test Report # 23W-012703 Date of Report Issue: September 13, 2023
Date of Sample Received: September 4, 2023 Pages: Page 1 of 10

CLIENT INFORMATION:

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



SAMPLE INFORMATION:

Description: Otis Ceramic Mug 15oz
Article No.: 1628-09NY Purchase Order Number: 2021811
Factory No.: 13247 Toy Co./Agency: -
Vendor No.: 11612 Country of Origin: China
Country of Distribution: Canada, United States Labeled Age Grade: -
Quantity Submitted: 14 pcs Requested Age Grade: -
Testing Period: 09/05/2023-09/13/2023 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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Jeremy Xu

Ada Guo

Jeremy Xu
Chemical Laboratory Supervisor

Ada Guo
Assist Physical Laboratory Manager



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	California Proposition 65, Lead and Cadmium – External Decoration
PASS	FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior
PASS	California Proposition 65, Leachable Lead and Cadmium from Food Contact Articles – Interior
PASS	Canadian Glazed Ceramics and Glassware Regulations SOR/2016-175, Leachable Lead and Cadmium from Ceramics and Glassware – Interior
PASS	19 CFR 134.11-Country of Origin-Labeling Review
PASS	Client-Performance Requirement-Thermal Shock



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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.	3	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	50	---	---	---	---	100
Conclusion	PASS	---	---	---	---	

Note:
mg/kg =Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit =15 mg/kg)

Remark:
The specification is quoted from client’s requirement.



DETAILED RESULTS:

California Proposition 65, Lead and Cadmium – External Decoration

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

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

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



DETAILED RESULTS:

FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior

Test Method: ASTM C738-94(Reapproved 2020)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1-A	1-B	1-C	1-D	1-E	1-F	Average (mg/L)	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)		
Volume of acid used (mL)	450	450	450	450	450	450		
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	0.5
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.5
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	NA	

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.1 mg/L; Cd = 0.02 mg/L)

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



DETAILED RESULTS:

California Proposition 65, Leachable Lead and Cadmium from Food Contact Articles – Interior

Test Method: ASTM C738-94(Reapproved 2020)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1-A	1-B	1-C	1-D	1-E	1-F	Average (mg/L)	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)		
Volume of acid used (mL)	450	450	450	450	450	450		
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	0.100
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.189
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	NA	

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.1 mg/L; Cd = 0.02 mg/L)

Category		Leachable Pb (mg/L)	Leachable Cd (mg/L)
X	Cups and Mugs (Any of 6)	0.100	0.189
	Flatware (Average of 6)	0.226	0.5
	Large Hollowware (Any of 6)	0.100	0.049
	Small Hollowware (Any of 6)	0.100	0.189
	Pitchers (Any of 6)	0.100	0.049



DETAILED RESULTS:

Canadian Glazed Ceramics and Glassware Regulations SOR/2016-175, Leachable Lead and Cadmium from Ceramics and Glassware – Interior

Test Method: ISO 6486-1:2019
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1-A	1-B	1-C	1-D	1-E	1-F	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	
Volume of acid used (mL)	450	450	450	450	450	450	
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	0.5
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.50
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.2mg/L; Cd = 0.02 mg/L)

Category		Leachable Pb (mg/L)	Leachable Cd (mg/L)
X	Cups and Mugs (Any of 6)	0.5	0.50
	Flatware (Any of 6)	3.0	0.50
	Large Hollowware (Any of 6)	1.0	0.25
	Small Hollowware (Any of 6)	2.0	0.50
	Pitchers (Any of 6)	0.5	0.25



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

Client-Performance Requirement-Thermal Shock

Test	Test Method	Observation	Conclusion
Thermal Shock	Product shall not crack or shatter after being subjected to extreme temperature change: Ceramic mugs & dinnerware: 212°F to 68°F	Cracking, broken wasn't happened when test from high temperature to low temperature test conditions.	PASS



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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Black printed beige ceramic	Interior
2	Black/dull blue printed beige ceramic	Exterior
3	Black/dull blue printed beige ceramic	Main body



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SAMPLE PHOTO:



-End Report-

