

TEST REPORT

Test Report # 19H-007699 Date of Report Issue: November 16, 2019
Date of Sample Received: October 17, 2019 Pages: Page 1 of 18

CLIENT INFORMATION:

Company: Hit Promotional Products
Recipient: Nathan Cotter
Recipient Email: ncotter@hitpromo.net



SAMPLE INFORMATION:

Description: 16 Oz. Enamel Campfire Mug
Assortment: 8 Colors Purchase Order Number: 337976
SKU No.: 6045 Agent: Brand New Days
Factory No.: 106786 Country of Origin: China
Country of Distribution: United States Labeled Age Grade: -
Quantity Submitted: 25 pcs (White), 8 pcs (Red, Orange, Lime, Teal, Blue, Navy, Black) + 1 lot Paints Recommended Age Grade: -
Testing Period: 10/18/2019 – 11/04/2019 Tested Age Grade: -
11/12/2019 – 11/16/2019

OVERALL RESULT:

**PASS with
information**

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	CPSIA Section 101, Total Lead in Substrate Materials
PASS	California Proposition 65, Total Lead in Substrate Materials
INFORMATION ONLY	FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers [#]
PASS	Client's Requirement, Bisphenol A and Bisphenol S ^{#φ}
PASS	FDA 21 CFR 175.300, Resinous and Polymeric Coatings [#]
PASS	Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium [#]
PASS	Client's Requirement, Leachable Lead & Cadmium from Metal – Lip & Rim [#]
PASS	ASTM B117-16 Resistance to Corrosion [#]
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.	2+3+4	5+6+7	8+9	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	90
Conclusion	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.

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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.	2+3+4	5+6+7	8+9	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	90
Conclusion	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:

The specification is quoted from client's requirement.

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DETAILED RESULTS:

CPSIA Section 101, 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.	10	11	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	---	---	---	100
Conclusion	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.

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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.	10	11	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	---	---	---	100
Conclusion	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:

FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers

Test Method: In-House Method[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	10	22	---	---	---
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)
Total Chromium (Cr)	14.0	0.013	---	---	---
Conclusion	Information Only	Information Only	---	---	---

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

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DETAILED RESULTS:

Client's Requirement, Bisphenol A and Bisphenol S

Test Method: In-House Method^{#φ}
 Analytical Method: Liquid Chromatography with Mass Spectrometry or
 Liquid Chromatography with Mass Spectrometry Mass Spectrometry

Specimen No.	1	---	---	---	Limit (ppb)
Test Item CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	
Bisphenol A (BPA) 80-05-7	ND	---	---	---	ND
Bisphenol S (BPS) 80-09-1	ND	---	---	---	ND
Conclusion	PASS	---	---	---	

Note:
 ppb (Parts per billion) = µg/kg (Micrograms per kilogram)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting limit: BPA = 1000 ppb; BPS = 200 ppb)

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DETAILED RESULTS:

FDA 21 CFR 175.300, Resinous and Polymeric Coatings

Test Method: FDA 21 CFR 175.300[#]

Specimen No.			1	---	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	Fill boiling	Until Cool to 100 ^o F	0.19	---	0.1	18
Conclusion			PASS	---		

Note:

Temp. = Temperature

^oF = 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:

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)[#], In-House Method[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	12A	12B	12C	12D	12E	12F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	520	520	520	520	520	520		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.5
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	0.5
Conclusion	PASS	PASS	PASS	PASS	PASS	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)
X	Cups and Mugs (Any of 6)	0.5	0.5
	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:

Client's Requirement, Leachable Lead & Cadmium from Metal – Lip & Rim

Test Method: ASTM C927-80 (Reapproved 2019)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	13A	13B	13C	13D	13E	13F	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)	190	190	190	190	190	190	
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

Specimen No.	14A	14B	14C	14D	14E	14F	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)	190	190	190	190	190	190	
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not Detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

Remark:
 The limit is quoted from Society of Glass & Ceramic Decorated Products.

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DETAILED RESULTS:

Client's Requirement, Leachable Lead & Cadmium from Metal – Lip & Rim

Test Method: ASTM C927-80 (Reapproved 2019)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	15A	15B	15C	15D	15E	15F	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)	190	190	190	190	190	190	
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16A	16B	16C	16D	16E	16F	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)	190	190	190	190	190	190	
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not Detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

Remark:
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DETAILED RESULTS:

Client's Requirement, Leachable Lead & Cadmium from Metal – Lip & Rim

Test Method: ASTM C927-80 (Reapproved 2019)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	17A	17B	17C	17D	17E	17F	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)	190	190	190	190	190	190	
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

Specimen No.	18A	18B	18C	18D	18E	18F	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)	190	190	190	190	190	190	
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not Detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

Remark:
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DETAILED RESULTS:

Client's Requirement, Leachable Lead & Cadmium from Metal – Lip & Rim

Test Method: ASTM C927-80 (Reapproved 2019)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	19A	19B	19C	19D	19E	19F	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)	190	190	190	190	190	190	
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

Specimen No.	20A	20B	20C	20D	20E	20F	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)	190	190	190	190	190	190	
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.4
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	4.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not Detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

Remark:
 The limit is quoted from Society of Glass & Ceramic Decorated Products.

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DETAILED RESULTS:

ASTM B117-16 Resistance to Corrosion

Test Method: ASTM B117-16#
Analytical Method: Salt Spray (Fog) Apparatus
Evaluation: In-house rating

Specimen no.:	21	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)

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.	2+3+4	5+6+7	8+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	90
Conclusion	PASS	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 = 20 mg/kg)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	White coating	On interior of mug (all styles)
2	White coating	On interior of mug (all styles); outer of mug/handle (white style)
3	Red coating	On outer of mug/handle (red style)
4	Orange coating	On outer of mug/handle (orange style)
5	Green coating	On outer of mug/handle (lime style)
6	Blue coating	On outer of mug/handle (teal style)
7	Dark blue coating	On outer of mug/handle (blue style)
8	Navy coating	On outer of mug/handle (navy style)
9	Black coating	On outer of mug/handle (black style)
10	Silvery metal (SS304)	Rim of mug (all styles)
11	Dull silvery metal	Body/handle (all styles)
12	White printed dull silvery metal	Interior of mug (all styles)
13	White printed dull silvery metal with silvery metal	Lip & Rim of mug (white style)
14	White/ red printed dull silvery metal with silvery metal	Lip & Rim of mug (red style)
15	White/ orange printed dull silvery metal with silvery metal	Lip & Rim of mug (orange style)
16	White/ green printed dull silvery metal with silvery metal	Lip & Rim of mug (lime style)
17	White/ blue printed dull silvery metal with silvery metal	Lip & Rim of mug (teal style)
18	White/ dark blue printed dull silvery metal with silvery metal	Lip & Rim of mug (blue style)
19	White/ navy printed dull silvery metal with silvery metal	Lip & Rim of mug (navy style)
20	White/ black printed dull silvery metal with silvery metal	Lip & Rim of mug (black style)
21	Complete product	Food contact metal only (all styles)
22	Dull silvery metal	Body (all styles)

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SAMPLE PHOTO:



-End Report-

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