QIMA
YOUR EYES IN THE SUPPLY CHAIN

ilac-MRA ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1500

TEST REPORT

Test Report #	19H-009383	Date of Report Issue:	January 22, 2020
Date of Sample Received:	December 19, 2019	Pages:	Page 1 of 14

CLIENT INFORMATION:

Company:	BIC Graphic
Recipient:	14421 Myerlake Circle Clearwater Florida 33760 United States (USA)

SAMPLE INFORMATION:

Description:	Value Bottle 28 oz, Value Bottle 21 oz		
Assortment:	-	Test Request Form No.:	3465
Item No.:	45189, 45190	Country of Origin:	United States
Shipment Order No.:	7095948, 7089830, 7100783, 7080804, 7101495, 7097533, 7086738	Labeled Age Grade:	-
Country of Distribution:	United States, Canada	Recommended Age Grade:	-
Quantity Submitted:	3 pcs per style	Tested Age Grade:	-
Testing Period:	12/27/2019 – 01/06/2020		

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

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 Metal / Plastic / Textile
PASS	Client's Requirement, Bisphenol A#
PASS	FDA 21 CFR 177.1520, Polypropylene Copolymers
PASS	FDA 21 CFR 177.1520, Polyethylene Copolymer
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

DETAILED RESULTS:

California Proposition 65, Total Lead in Metal / Plastic / Textile

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	2	3	4	5	**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	

Specimen No.	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	ND	---	**100**
Conclusion	PASS	PASS	PASS	PASS	---	

Note:
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 10 ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

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

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Navy plastic (PP-co)	Translucent Navy PP copolymer plastic lid (navy lid style)
2	Translucent red plastic (PP-co)	Translucent Red PP copolymer plastic lid (red lid style)
3	Translucent blue plastic (PP-co)	Translucent Blue PP copolymer plastic lid (blue lid style)
4	Translucent black plastic (PP-co)	Translucent Black PP copolymer plastic lid (Grey lid style)
5	Translucent green plastic (PP-co)	Translucent Green PP copolymer plastic lid (green lid style)
6	Translucent plastic (PP-co)	Translucent Spout top (all lid styles)
7	White plastic (PE-co)	White HDPE bottle (white bottle style)
8	Yellow plastic (PE-co)	Yellow HDPE bottle (yellow bottle style)
9	Red plastic (PE-co)	Red HDPE bottle (red bottle style)

DETAILED RESULTS:

Client's Requirement, Bisphenol A

Test Method: In-House Method#
Analytical Method: Liquid Chromatography with Fluorescence Detection

Specimen No.		1	2	3	4	
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	**ND**
Conclusion		PASS	PASS	PASS	PASS	

Specimen No.		5	6	7	8	
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	**ND**
Conclusion		PASS	PASS	PASS	PASS	

Specimen No.		9	---	---	---	
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (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)

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Navy plastic (PP-co)	Translucent Navy PP copolymer plastic lid (navy lid style)
2	Translucent red plastic (PP-co)	Translucent Red PP copolymer plastic lid (red lid style)
3	Translucent blue plastic (PP-co)	Translucent Blue PP copolymer plastic lid (blue lid style)
4	Translucent black plastic (PP-co)	Translucent Black PP copolymer plastic lid (Grey lid style)
5	Translucent green plastic (PP-co)	Translucent Green PP copolymer plastic lid (green lid style)
6	Translucent plastic (PP-co)	Translucent Spout top (all lid styles)
7	White plastic (PE-co)	White HDPE bottle (white bottle style)
8	Yellow plastic (PE-co)	Yellow HDPE bottle (yellow bottle style)
9	Red plastic (PE-co)	Red HDPE bottle (red bottle style)

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			1	2		
Test Item	Temp.	Duration	Result	Result	**RL**	**Limit**
n-Hexane extractive (%)	50°C	2 hours	2.5	2.5	**0.4**	**5.5**
Xylene extractive (%)	Reflux	2 hours or until total dissolved	4.9	6.8	**1.0**	**30**
		Conclusion	PASS	PASS		

Specimen No.			3	4		
Test Item	Temp.	Duration	Result	Result	**RL**	**Limit**
n-Hexane extractive (%)	50°C	2 hours	2.5	2.5	**0.4**	**5.5**
Xylene extractive (%)	Reflux	2 hours or until total dissolved	5.4	6.3	**1.0**	**30**
		Conclusion	PASS	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.

By client's request, density is not conducted in FDA 21 CFR 177.1520 PP-co.

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			5	6		
Test Item	Temp.	Duration	Result	Result	**RL**	**Limit**
n-Hexane extractive (%)	50°C	2 hours	3.1	1.3	**0.4**	**5.5**
Xylene extractive (%)	Reflux	2 hours or until total dissolved	5.3	2.4	**1.0**	**30**
		Conclusion	PASS	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.

By client's request, density is not conducted in FDA 21 CFR 177.1520 PP-co.

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Navy plastic (PP-co)	Translucent Navy PP copolymer plastic lid (navy lid style)
2	Translucent red plastic (PP-co)	Translucent Red PP copolymer plastic lid (red lid style)
3	Translucent blue plastic (PP-co)	Translucent Blue PP copolymer plastic lid (blue lid style)
4	Translucent black plastic (PP-co)	Translucent Black PP copolymer plastic lid (Grey lid style)
5	Translucent green plastic (PP-co)	Translucent Green PP copolymer plastic lid (green lid style)
6	Translucent plastic (PP-co)	Translucent Spout top (all lid styles)

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polyethylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			7	8		
Test Item	Temp.	Duration	Result	Result	**RL**	**Limit**
n-Hexane extractive (%)	50°C	2 hours	ND	ND	**0.4**	**5.5**
Xylene extractive (%)	Reflux	2 hours or total dissolved	ND	ND	**1.0**	**30**
		Conclusion	PASS	PASS		

Specimen No.			9	---		
Test Item	Temp.	Duration	Result	Result	**RL**	**Limit**
n-Hexane extractive (%)	50°C	2 hours	ND	---	**0.4**	**5.5**
Xylene extractive (%)	Reflux	2 hours or total dissolved	ND	---	**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.

By client's request, density is not conducted in FDA 21 CFR 177.1520 PE-co.

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
7	White plastic (PE-co)	White HDPE bottle (white bottle style)
8	Yellow plastic (PE-co)	Yellow HDPE bottle (yellow bottle style)
9	Red plastic (PE-co)	Red HDPE bottle (red bottle style)

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	4	5	
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (mg/kg)**
Total Lead (Pb)	ND	ND	ND	ND	ND	**90**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	6	7	8	9	---	
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (mg/kg)**
Total Lead (Pb)	ND	ND	ND	ND	---	**90**
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 = 10 ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Navy plastic (PP-co)	Translucent Navy PP copolymer plastic lid (navy lid style)
2	Translucent red plastic (PP-co)	Translucent Red PP copolymer plastic lid (red lid style)
3	Translucent blue plastic (PP-co)	Translucent Blue PP copolymer plastic lid (blue lid style)
4	Translucent black plastic (PP-co)	Translucent Black PP copolymer plastic lid (Grey lid style)
5	Translucent green plastic (PP-co)	Translucent Green PP copolymer plastic lid (green lid style)
6	Translucent plastic (PP-co)	Translucent Spout top (all lid styles)
7	White plastic (PE-co)	White HDPE bottle (white bottle style)
8	Yellow plastic (PE-co)	Yellow HDPE bottle (yellow bottle style)
9	Red plastic (PE-co)	Red HDPE bottle (red bottle style)

SAMPLE PHOTO:

-End Report-