



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, Labeled Age Grade: -

7100783, 7080804, 7101495, 7097533,

7086738

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

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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 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

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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
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	6	7	8	9		Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND	ND	ND	ND		100
Conclusion	PASS	PASS	PASS	PASS		

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

IT = 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.

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SPECIMEN DESCRIPTION:

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



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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
Conclusi	ion	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
Conclusi	ion	PASS	PASS	PASS	PASS	

Specimen	No.	9				
Test Item	CAS No.	Result	Result	Result	Result	Limit
		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Bisphenol A (BPA)	80-05-7	ND				ND
Conclusi	on	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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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Navy plastic (PP-co)	Translucent Navy PP copolymer plastic
	Travy plastic (11 co)	lid (navy lid style)
2	Translucent red plastic (PP-co)	Translucent Red PP copolymer plastic lid
	Translacent rea plastic (11 co)	(red lid style)
3	Translucent blue plastic (PP-co)	Translucent Blue PP copolymer plastic lid
3	Transideent blue plastic (FF-co)	(blue lid style)
4	Translucent black plastic (PP-co)	Translucent Black PP copolymer plastic
4	Translucent black plastic (FF-co)	lid (Grey lid style)
5	Translucent green plastic (PP-co)	Translucent Green PP copolymer plastic
3	Transideent green plastic (FF-co)	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)



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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
	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.

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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
	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.

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SPECIMEN DESCRIPTION:

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



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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.

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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)

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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.

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Test Report #: 19H-009383 Page 13 of 14

SPECIMEN DESCRIPTION:

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



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SAMPLE PHOTO:



-End Report-

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