

TEST REPORT

Test Report # 16H-04638 Date of Report Issue: August 10, 2016
Date of Sample Received: August 2, 2016 Pages: Page 1 of 13

CLIENT INFORMATION:

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



SAMPLE INFORMATION:

Description: O2Cool® Shaker Bottle - 30 oz.
Assortment: - Purchase Order Number: 7596
Item No.: 46116 Country of Origin: United States
Country of Distribution: United States, Canada Labeled Age Grade: -
Quantity Submitted: 3 pcs per color Recommended Age Grade: -
Testing Period: 08/02/2016 – 08/10/2016 Tested Age Grade: -

OVERALL RESULT:



Refer to page 2 for test result summary and appropriate notes.

ANSECO GROUP (HK) LIMITED



Vincent Chow Wai Kit
Manager, Chemical Laboratory

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The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.

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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, Polyethylene
PASS	FDA 21 CFR 177.1520, Polypropylene Homopolymers

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	White plastic (PE)	White PE plastic snap cover and carabiner (all styles)
2	Black plastic (PE)	Black PE plastic lid (black style)
3	Blue plastic (PE)	Blue PE plastic lid (blue style)
4	Red plastic (PE)	Red PE plastic lid (red style)
5	Translucent plastic (PP-homo)	Frost PP Homopolymer plastic bottle (all styles)
6	Dull black plastic (PP-homo)	Black PP Homopolymer mixing ball (black style)
7	Dull blue plastic (PP-homo)	Blue PP Homopolymer mixing ball (blue style)
8	Dull red plastic (PP-homo)	Red PP Homopolymer mixing ball (red style)
9	Dull white plastic (PP-homo)	White PP Homopolymer internal guard ring (all styles)

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DETAILED RESULTS:

Client's Requirement: Bisphenol A

Test Method: AI | ANSECO Method#
 Analytical Method: Liquid Chromatography with Fluorescence Detection

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

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

Specimen No.		9	---	---	---	Limit (ppm)
Test Item	CAS No.	Result (ppm)	Result (ppm)	Result (ppm)	Result (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	White plastic (PE)	White PE plastic snap cover and carabiner (all styles)
2	Black plastic (PE)	Black PE plastic lid (black style)
3	Blue plastic (PE)	Blue PE plastic lid (blue style)
4	Red plastic (PE)	Red PE plastic lid (red style)
5	Translucent plastic (PP-homo)	Frost PP Homopolymer plastic bottle (all styles)
6	Dull black plastic (PP-homo)	Black PP Homopolymer mixing ball (black style)
7	Dull blue plastic (PP-homo)	Blue PP Homopolymer mixing ball (blue style)
8	Dull red plastic (PP-homo)	Red PP Homopolymer mixing ball (red style)
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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polyethylene

Test Method: FDA 21 CFR 177.1520

Specimen No.			1	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
n-Hexane extractive (% m/m)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% m/m)	Reflux	2 hours	1.0	1.0	11.3
Conclusion			PASS		

Specimen No.			2	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
n-Hexane extractive (% m/m)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% m/m)	Reflux	2 hours	1.2	1.0	11.3
Conclusion			PASS		

Note:

Temp. = Temperature

°C = Degree Celcius

g/cc = Grams per cubic centimeter

% m/m = Percent by mass

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) 2.1.

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

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polyethylene

Test Method: FDA 21 CFR 177.1520

Specimen No.			3	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
n-Hexane extractive (% m/m)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% m/m)	Reflux	2 hours	1.1	1.0	11.3
Conclusion			PASS		

Specimen No.			4	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
n-Hexane extractive (% m/m)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% m/m)	Reflux	2 hours	1.1	1.0	11.3
Conclusion			PASS		

Note:

Temp. = Temperature

°C = Degree Celcius

g/cc = Grams per cubic centimeter

% m/m = Percent by mass

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) 2.1.

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

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	White plastic (PE)	White PE plastic snap cover and carabiner (all styles)
2	Black plastic (PE)	Black PE plastic lid (black style)
3	Blue plastic (PE)	Blue PE plastic lid (blue style)
4	Red plastic (PE)	Red PE plastic lid (red style)

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DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			5	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
n-Hexane extractive (% w/w)	Reflux	2 hours	5.2	0.1	6.4
Xylene extractive (% w/w)	25°C	1 hour	5.7	0.5	9.8
Conclusion			PASS		

Specimen No.			6	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
n-Hexane extractive (% w/w)	Reflux	2 hours	2.8	0.1	6.4
Xylene extractive (% w/w)	25°C	1 hour	5.5	0.5	9.8
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) 1.1.

By client's request, density and melting point were not conducted in FDA 21 CFR 177.1520 PP-homo.

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			7	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
n-Hexane extractive (% w/w)	Reflux	2 hours	2.6	0.1	6.4
Xylene extractive (% w/w)	25°C	1 hour	5.9	0.5	9.8
Conclusion			PASS		

Specimen No.			8	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
n-Hexane extractive (% w/w)	Reflux	2 hours	2.6	0.1	6.4
Xylene extractive (% w/w)	25°C	1 hour	7.8	0.5	9.8
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) 1.1.

By client's request, density and melting point were not conducted in FDA 21 CFR 177.1520 PP-homo.

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			9	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
n-Hexane extractive (% w/w)	Reflux	2 hours	0.7	0.1	6.4
Xylene extractive (% w/w)	25°C	1 hour	1.1	0.5	9.8
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) 1.1.

By client's request, density and melting point were not conducted in FDA 21 CFR 177.1520 PP-homo.

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
5	Translucent plastic (PP-homo)	Frost PP Homopolymer plastic bottle (all styles)
6	Dull black plastic (PP-homo)	Black PP Homopolymer mixing ball (black style)
7	Dull blue plastic (PP-homo)	Blue PP Homopolymer mixing ball (blue style)
8	Dull red plastic (PP-homo)	Red PP Homopolymer mixing ball (red style)
9	Dull white plastic (PP-homo)	White PP Homopolymer internal guard ring (all styles)

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SAMPLE PHOTO:



-End Report-