

Test report

T-24249583-10-R1



Overall result Pass

Please refer to the following pages for test result summary and notes.

Client information

Client: Custom Plastic Specialties Address: 5678 West Ridge Road

Erie, PA 16506 United States



Sample information

Description: PET PREFORMS

Country of origin: Country of distribution: -

Quantity submitted: 4 pcs per style

Purchase order #: 69565

Labeled age grade: Tested age grade: -

General information

Sample receipt date: 15-Oct-2024

Testing period: 16-Oct-2024 to 23-Oct-2024

Report date: 25-Oct-2024

QIMA (Hangzhou) Testing Co., Ltd.

Josemy. Xu

Jeremy Xu

Chemical Laboratory Manager



Result summary

At the request of the client, the following test were conducted:

Test(s) conducted	Conclusion
CPSIA Section 101, Total Lead in Substrate Materials	Pass
California Proposition 65, Total Lead in Substrate Materials	Pass
California Proposition 65, Bisphenol A content	Pass
CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)	Pass
California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)	Pass
FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers	Pass

Note:

By client's request, selected components were conducted for all chemical testing.





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.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	Pass	Pass	Pass	Pass	Pass	

Specimen No.	16+17+18	19+20+21	22+23			Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND			100
Conclusion	Pass	Pass	Pass			

Note:

mg/kg =Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.





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.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	Pass	Pass	Pass	Pass	Pass	

Specimen No.	16+17+18	19+20+21	22+23			Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND			100
Conclusion	Pass	Pass	Pass			

Note:

mg/kg =Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit =15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:





California Proposition 65, Bisphenol A content

Test Method: In-House Method

Analytical Method: Liquid Chromatography-Mass Spectrometer Mass Spectrometer (LC-MS/MS)

Specimen No.		2	3	4	5	Client's limit
Test Item CAS No.	CACALO	Result	Result	Result	Result	(mg/kg)
	CAS NO.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(1116/116)
Picabonal A (PDA)	80-05-7	ND	ND	ND ND ND ND	ND	Not
Bisphenol A (BPA)	80-05-7			ND	ND	Detected
Conclus	ion	Pass	Pass	Pass	Pass	

Specimen No.		6	7	8	9	Client's limit
Test Item CAS	CAS No	Result	Result	Result	Result	(mg/kg)
	CAS NO.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(1116/116)
Bisphenol A (BPA)	80-05-7	ND	ND	ND ND ND	ND	Not
displicitor A (BPA)	80-03-7				ND	Detected
Conclus	sion	Pass	Pass	Pass	Pass	

Specimen No.		10	11	12	13	Client's limit
Tost Itom	CAS No.	Result	Result	Result	Result	(mg/kg)
Test Item	CAS NO.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(1116/116/
Bisphenol A (BPA)	80-05-7	ND	ND	ND ND ND ND	ND	Not
bispiletion A (BPA) 80-05-7		ND	ND	ND	ND	Detected
Conclusion		Pass	Pass	Pass	Pass	

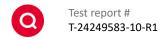
Specimen No.		14	15	16	17	Client's limit
Test Item CAS	CAS No	Result	Result	Result	Result	(mg/kg)
	CAS NO.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(1116/116/
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	Not Detected
Conclus	sion	Pass	Pass	Pass	Pass	

Note:

mg/kg=milligram per kilogram
ND=Not Detected(Reporting limit = 1.0mg/kg)

Remark:





California Proposition 65, Bisphenol A content

Test Method: In-House Method

Analytical Method: Liquid Chromatography-Mass Spectrometer Mass Spectrometer (LC-MS/MS)

Specimen No.		18	19	20	21	Client's limit
Tost Itom	CAS No.	Result	Result	Result	Result	(mg/kg)
Test Item	CAS NO.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(1116/116/
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	Not
						Detected
Conclusion		Pass	Pass	Pass	Pass	

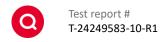
Specimen No.		22	23			Client's limit
Test Item CAS	CAS No	Result	Result	Result	Result	(mg/kg)
	CAS No.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(6/6/
Risphenol A (RPA)	Bisphenol A (BPA) 80-05-7	ND	ND			Not
Displicitor A (Di A)		ND	ND			Detected
Conclus	ion	Pass	Pass			

Note:

mg/kg=milligram per kilogram
ND=Not Detected(Reporting limit = 1.0mg/kg)

Remark:





CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen N	lo.	1+2+3	4+5+6	7+8+9	10+11+12	Limit
Test Item	CAS No.	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	(% w/w)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	ND	0.1
	Conclusion	Pass	Pass	Pass	Pass	

Note:

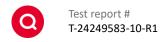
% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % w/w)

Composite results are based on specimen of least mass resulting in highest potential concentration.





CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen N	lo.	13+14+15	16+17+18	19+20+21	22+23	Limit
Test Item	CAS No.	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	(% w/w)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	ND	0.1
	Conclusion	Pass	Pass	Pass	Pass	

Note:

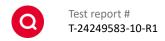
% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % w/w)

Composite results are based on specimen of least mass resulting in highest potential concentration.





California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4

Test Instrument: Gas Chromatography with Mass Spectrometry

Specimen N	lo.	1+2+3	4+5+6	7+8+9	10+11+12	Limit
Test Item	CAS No.	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	(% w/w)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	0.1
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	ND	0.1
	Conclusion	Pass	Pass	Pass	Pass	

Specimen N	lo.	13+14+15	16+17+18	19+20+21	22+23	Limit
Test Item	CAS No.	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	(% w/w)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	0.1
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	ND	0.1
	Conclusion	Pass	Pass	Pass	Pass	

Note:

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % w/w)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:





FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No.			1		
Test Item	Test Condition		Decult	DI	Limit
rest item	Temp.	Duration	Result	RL	Lillit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F 2 hours		ND	0.1	0.5
Conclusion			Pass		

Specimen No.			2		
Test Item	Test Condition		Darrit	DI	Limit
rest item	Temp.	Duration	Result	RL	LITTIL
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F 2 hours		ND	0.1	0.5
Conclusion			Pass		

Specimen No.			3		
To al Harris	Test Condition		Darrit	DI	l imai#
Test Item	Temp.	Duration	Result	RL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F 2 hours		ND	0.1	0.5
Conclusion			Pass		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:





FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No.			4		
To at the sec	Test Condition		Result	DI	Limit
Test Item	Temp.	Duration	Result	RL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F 2 hours		ND	0.1	0.5
Conclusion			Pass		

Specimen No.			5		
Test Item	Test Condition		Posul+	DI	Limit
lest item	Temp.	Duration	Result	RL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F 2 hours		ND	0.1	0.5
Conclusion	Conclusion				

Specimen No.			6		
Test Item	Test Condition		Darrit	DI	Limit
rest item	Temp.	Duration	Result	RL	Limit
Distilled water extractive (mg/in²)	250 °F 2 hours		ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F 2 hours		ND	0.1	0.5
Conclusion			Pass		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

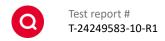
mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:





FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No.			7		
To at the sec	Test Condition		Decult	DI	Limit
Test Item	Temp.	Duration	Result	RL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F 2 hours		ND	0.1	0.5
Conclusion			Pass		

Specimen No.			8		
Test Item	Test Condition		Danielt	RL	Limit
lest item	Temp.	Duration	Result	KL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F 2 hours		ND	0.1	0.5
Conclusion	Conclusion				

Specimen No.			9		
Test Item	Test Condition		Darrit	DI	Limit
rest item	Temp.	Duration	Result	RL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F 2 hours		ND	0.1	0.5
Conclusion			Pass		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:





FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No			10		
Test Item	Test Co	ndition	Result	RL	Limit
rest item	Temp.	Duration	Result	KL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion	Conclusion		Pass		

Specimen No).		11		
Test Item	Test Co	ndition	Result	RL	Limit
lest item	Temp.	Duration	Result	KL	LITTIL
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion			Pass		

Specimen No).		12		
Test Item	Test Co	ondition	Posul+	DI	Limit
rest item	Temp.	Duration	Result RL	KL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion			Pass		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:





FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No			13	13	
Test Item	Test Co	ndition	Result	RL	Limit
rest item	Temp.	Duration	Result	KL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion			Pass		

Specimen No).		14		
Test Item	Test Co	ndition	Result	RL	Limit
lest item	Temp.	Duration	Result	KL	LITTIL
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion			Pass		

Specimen No).		15		
Test Item	Test Co	ondition	Posult	DI	Limit
rest item	Temp.	Duration	Result RL	KL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion	Conclusion		Pass		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:





FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No).		16		
Test Item	Test Co	ndition	Result	RL	Limit
rest item	Temp.	Duration	Result	KL	LIIIIL
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion			Pass		

Specimen No).		17		
Test Item	Test Co	ndition	Result	RL	Limit
lest item	Temp.	Duration	Result	KL	LITTIL
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion			Pass		

Specimen No).		18		
Test Item	Test Co	ondition	Posult	DI	Limit
rest item	Temp.	Duration	Result RL	KL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion	<u>.</u>		Pass		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:





FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No			19		
Test Item	Test Co	ndition	Result	RL	Limit
rest item	Temp.	Duration	Result	KL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion			Pass		

Specimen No			20		
Test Item	Test Co	ndition	Result	RL	Limit
lest item	Temp.	Duration	Result	KL	Lilliit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion			Pass		

Specimen No).		21		
Test Item	Test Co	ondition	Docult	DI.	l imai#
rest item	Temp.	Duration	Result RL	KL	Limit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion			Pass		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

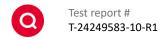
mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:





FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No.			22		
Test Item	Test Condition		Pocul+	RL	Limit
rest item	Temp.	Duration	Result	KL	Littilt
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion			Pass		

Specimen No.			23		
Test Item	Test Condition		Pocul+	RL	Limit
lest item	Temp.	Duration	Result	KL	Lillit
Distilled water extractive (mg/in²)	250 °F	2 hours	ND	0.1	0.5
n-Heptane extractive (mg/in²)	150 °F	2 hours	ND	0.1	0.5
Conclusion			Pass		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:





Specimen description

Specimen #	Specimen description	Location
1	Black plastic	PREFORMS
2	Transparent blue plastic	PREFORMS
3	Yellow plastic	PREFORMS
4	Transparent pink plastic	PREFORMS
5	Forest green plastic	PREFORMS
6	Green plastic	PREFORMS
7	Transparent green plastic	PREFORMS
8	Pink plastic	PREFORMS
9	Transparent orange plastic	PREFORMS
10	Frost plastic	PREFORMS
11	Transparent aqua plastic	PREFORMS
12	Royal blue plastic	PREFORMS
13	Light blue plastic	PREFORMS
14	Transparent purple plastic	PREFORMS
15	White plastic	PREFORMS
16	Transparent yellow plastic	PREFORMS
17	Smoke plastic	PREFORMS
18	Orange plastic	PREFORMS
19	Transparent red plastic	PREFORMS
20	Transparent plastic	PREFORMS
21	Red plastic	PREFORMS
22	Navy plastic	PREFORMS
23	Purple plastic	PREFORMS





Pictures

Sample photo:



End of the report

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and the method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule. (https://www.qima.com/conditions-of-service#decisionRule). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.

