POLYCONCEPT TEST REPORT

LAB LOCATION:	**SHANG HAI**	**REPORT NUMBER:**	**EFW524043826-CG-01**
DATE IN:	**April 16, 2024**	**DATE OUT:**	**April 29, 2024**

Applicant:	Polyconcept GBS		
Contact:	Kathy Lu		
Address:	Zhongshan Wanbo International Center, Room 301-303, No. 666 West Huaihai Road, Changning District, Shanghai, 200052, PRC		
TEL:	13918486858	**FAX:**	--
E-mail:	testprogram@pcna.com; kathy.lu@polyconceptgbs.com; claire.li@polyconceptgbs.com; kkolber@pcna.com		
Copy To:	--		

OVERALL RATING

PASS	**X**
FAIL	**--**
PRELIM FAIL	**--**

Sample Information

EFW524043826-CG-01

Sample Description:	Thor Copper Vacuum Insulated Bottle 25oz Straw Lid
PO Number:	2064223
Article Number:	1600-36NY
Number of Sample Submitted:	6pcs
Factory Number:	10942
Vendor Number:	10531
Customer:	Leeds
Country of Origin:	China
Country of Destination:	US/CAN
Retest – Previous Report No:	/
Remark:	

For and on behalf of
Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd.

Chen Lin, Rain
Manager, Hardlines Division

Test Result Summary	
Test Requested	**Result**
California Proposition 65 Total Lead Content in Surface Coatings and Substrates	PASS
Canadian Consumer Products Containing Lead Regulation (SOR/2018-83) - Total Lead in Substrate	PASS
Phthalate Content (10P)	PASS
Total Bisphenol A Content	PASS
Material in Contact with Food Articles [Olefin Polymers - Polypropylene Copolymer] – U.S. FDA 21 CFR 177.1520	PASS
Material in Contact with Food Articles [Olefin Polymers - Polyethylene] – U.S. FDA 21 CFR 177.1520	PASS
Material in Contact with Food Articles [Closures with Sealing Gaskets for Food Containers] – U.S. FDA 21 CFR 177.1210	PASS
FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers	PASS
19 CFR 134.11 Country of Origin Markings	PASS
Sharp Edges - Straws	PASS
Heat retention test	Information Only
Cold retention test	Information Only

COMPONENT BREAKDOWN LIST:

Test Item	Component Description
A	Thor Copper Vacuum Insulated Bottle 25oz Straw Lid
A1	Silver metal(inner/outer/lid/bottom)
A2	Silver metal(handle)
A3	Navy coating(on outer)
A4	Black plastic(nozzle/lid)
A5	Transparent plastic(straw)
A6	Transparent silicone(gasket)
A7	Black silicone(air hole stopper)

TEST RESULT:

California Proposition 65 Total Lead Content in Surface Coatings and Substrates

Test Item	Classification	Total Lead (Pb) (mg/kg)		Conclusion
		Result	Maximum Permissible Limit	
A1+A2	Substrate	<10	100	PASS
A3	Surface coating	<10	90	PASS
A4+A5	Substrate	<10	100	PASS
A6+A7	Substrate	12	100	PASS

Method:
1) Lead in paint and other similar surface coatings:
The test is conducted according to the US CPSC Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011 (CPSC-CH-E1003-09.1)
2) Lead in metals:
The test is conducted according to the US CPSC Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 (CPSC-CH-E1001-08.3)
3) Lead in other non-metal materials including plastics, glass and leather material:
The test is conducted according to the US CPSC Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 (CPSC-CH-E1002-08.3)

Note: ppm = part per million = mg/kg (milligram per kilogram)
"<" = less than

Canadian Consumer Products Containing Lead Regulation (SOR/2018-83) - Total Lead in Substrate

Test Item	Total Lead (Pb) (mg/kg)		Conclusion
	Result	Limit	
A1+A2	<10	90	PASS

Method: Sample was digested with nitric acid and analyzed by Atomic Absorption Spectrophotometer / Inductively Coupled Plasma Mass Spectrometer.

Note: mg/kg = milligram per kilogram
"<" = less than

TEST RESULT:

Phthalate Content (10P)

Test Item	Phthalates Content (%)		Conclusion
	Result	Client's requirement	
A3	<0.005 (individual)	<0.1 (individual)	PASS
A4+A5	<0.005 (individual)	<0.1 (individual)	PASS
A6+A7	<0.005 (individual)	<0.1 (individual)	PASS

List of Phthalates:

Chemical Name	CAS No.	Chemical Name	CAS No.
Dibutyl phthalate (DBP)	84-74-2	Butyl benzyl phthalate (BBP)	85-68-7
Di-2-ethylhexyl phthalate (DEHP) / Dioctyl phthalate (DOP)	117-81-7	Di-iso-butyl phthalate (DIBP)	84-69-5
Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	Di-iso-decyl phthalate (DIDP)	26761-40-0/ 68515-49-1
Di-n-octyl phthalate (DNOP)	117-84-0	Di-n-hexyl phthalate (DNHP/ DHEXP)	84-75-3
Dicyclohexyl phthalate (DCHP)	84-61-7	Dipentyl phthalate (DPP / DPENP)	131-18-0

Method: The test is conducted according to the US CPSC Standard Operation Procedure for Determination of Phthalates, April 1, 2010 (CPSC-CH-C1001-09.3)

Note: % = percentage
"<" = less than
">" = more than

Total Bisphenol A Content

Test Item	Bisphenol A [CAS No. 80-05-7] (mg/kg)		Conclusion
	Result	Client's Requirement	
A3	ND	ND	PASS
A4	ND	ND	PASS
A5	ND	ND	PASS
A6	ND	ND	PASS
A7	ND	ND	PASS

ND = Not detected (Laboratory Reporting Limit = 1mg/kg)

Method: Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer.

Note: mg/kg = milligram per kilogram

TEST RESULT:

Material in Contact with Food Articles [Olefin Polymers - Polypropylene Copolymer] – U.S. FDA 21 CFR 177.1520

Parameter	Unit	Result	Limit
		A4	
Density	g/cm^3	0.878	0.85 - 1.00
n-Hexane Extractives	% w/w	0.2	≤5.5
Xylene Extractives	% w/w	0.3	≤30
Conclusion		PASS	-

Method: U.S. FDA 21 CFR 177.1520

Note: g/cm^3 = gram per cubic centimetre
% w/w = percent weight by weight
"<" = less than
"≤"= less than or equal to

Material in Contact with Food Articles [Olefin Polymers - Polyethylene] – U.S. FDA 21 CFR 177.1520

For use in articles that contact food except for articles used for packing or holding food during cooking

Parameter	Unit	Result	Limit
		A5	
Density	g/cm^3	0.921	0.85 - 1.00
n-Hexane Extractives	% w/w	<0.2	≤5.5
Xylene Extractives	% w/w	1.0	≤11.3
Conclusion		PASS	-

Method: U.S. FDA 21 CFR 177.1520

Note: g/cm^3 = gram per cubic centimetre
% w/w = percent weight by weight
"<" = less than
"≤"= less than or equal to

TEST RESULT:

Material in Contact with Food Articles [Closures with Sealing Gaskets for Food Containers] – U.S. FDA 21 CFR 177.1210

Condition of use: C) Hot filled or pasteurized above 150°F

Extracting condition: Water (Fill boiling, cool to 100°F), Heptane (120°F, 15min.), 8% Alcohol (Fill boiling, cool to 100°F)

Parameter	Unit	Result		Limit
		A6	A7	
Chloroform - Soluble Extractives				
Distilled Water	ppm	<10	<10	≤50
n-Heptane	ppm	<10	<10	≤50
8 % Alcohol	ppm	<10	<10	≤50
Conclusion		PASS	PASS	-

Method: U.S. FDA 21 CFR 177.1210

Remark: 1) Maximum extractives tolerances of different types of closure-sealing gasket composition:

Type of closure-sealing gasket composition	Maximum Extractives Tolerances (in ppm)		
	Chloroform fraction of water extractives	Chloroform fraction of heptane extractives	Chloroform fraction of alcohol extractives
1. Plasticized polymers, including unvulcanized or vulcanized or otherwise cured natural and synthetic rubber formed in place as overall discs or annular rings from a hot melt, solution, plastisol, organisol, mechanical dispersion, or latex	50	500	50
2. Performed overall discs or annular rings of plasticized polymers, including unvulcanized natural or synthetic rubber	50	250	50
3. Performed overall discs or annular rings of vulcanized plasticized polymers, including natural or synthetic rubber	50	50	50
4. Performed overall discs or annular rings of polymeric or resinous-coated paper, paperboard, plastic, or metal foil substrates	50	250	50
5. Closures with sealing gaskets or sealing compositions as described in 1 ,2 , 3and 4, and including paper, paperboard, and glassine used for dry foods only	Not applicable	Not applicable	Not applicable

Note: ppm = part per million
"<" = less than
"≤"= less than or equal to

TEST RESULT:

FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers

Test Item	Total Chromium (Cr) (%)		Conclusion
	Result	Limit	
A1	18.3	≥16	PASS

Method: Acid digestion, analysis by ICP-OES

TEST RESULT:

Test Property	Method	Applicable Components	Limits	Notes	Result
19 CFR 134.11 Country of Origin Markings	Not Applicable	Per Review	Not Applicable	Products Manufactured outside of USA.	All styles: PASS
Sharp Edges - Straws	16 CFR 1500.49	Rigid Straws	No sharp edges	/	PASS

TEST RESULT:

Heat retention test – Client Requirement

Test method:
Pour boiling water into the container (to a height of approximately 1 inch under the rim). Temperature measurement was then taken and the lid screwed on hand-tight. The temperature is measured in ℉ at every 1 minute until the temperature reaches 120℉

Original temperature: 212℉
Environment temperature: 68℉
Limit：Keep the beverage contents hot for a minimum of 12hours

Test Item	Article No.: 1600-36NY				Comments
	Sample 1	Sample 2	Sample 3	Average	
The temperature after 12 hrs (℉)	135.9	136.2	135.4	135.8	Information Only
The time drop to 120℉(hrs)	17.9	18.2	17.8	18.0	Information Only

Cold retention test – Client Requirement

Test method:
The products were conditioned at 72℉ for 1 minute. The products were then filled with ice cube as much as the container can fit in. Fill the product to its normal capacity of 60℉ water, insert thermocouple and the lid was screwed hand-tight. The temperature was measured in ℉ at every 1 minute until the temperature reaches 72℉

Original temperature: 32℉
Environment temperature: 72℉
Limit：Keep the beverage contents cold for a minimum of 24hours

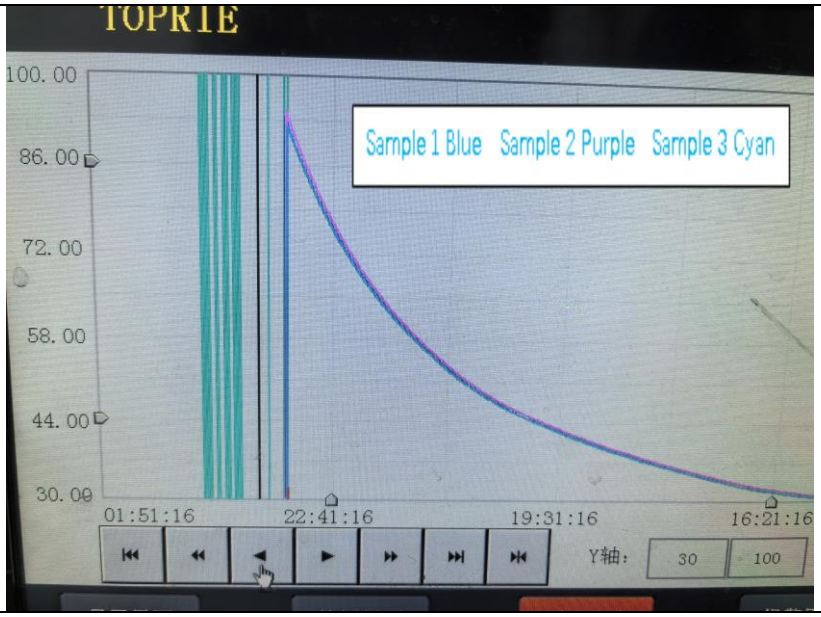
Test Item	Article No.: 1600-36NY				Comments
	Sample 1	Sample 2	Sample 3	Average	
The temperature after 24 hrs (℉)	34.2	32.2	31.5	32.6	Information Only
The time raise to 72℉(hrs)	81.1	89.7	86.6	85.8	Information Only

Photo of Exhibit

Components 1

Components 2

Components 3


4: Heat retention

5: Cold retention


**********End of Test Report**********

NOTE:

If there is question or concern regarding the above results, please contact us via email coco.yu@cpt.eurofinscn.com

This test report is governed by the Terms and Conditions, available on request or attached to the end of this test report. Attention is especially drawn to the limitations of liability, indemnification and jurisdictional provisions defined therein. This report is issued strictly based on the testing of the samples submitted by you. The test results in this report refer only to the sample(s) actually tested and do not refer or be deemed to refer to any bulk production from which such sample(s) may be said to have been obtained. In the event that Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd ("ERF") was requested to survey and test any bulk production quantity of samples, ERF, in the absence of any contrary written instructions, performed random sampling of bulk production for testing purposes. Variations in the conditions under which samples are stored, transported, etc., may lead to variations in the test results. ERF cannot anticipate and shall not be held responsible for variations in test results that may be due to factors beyond ERF' control, such as, sample cross-contamination, evaporation of volatile substances due to storage temperature, humidity, etc. This report does not constitute a recommendation, actual or implied, for any specific course of action. Other than the expressed warranties made in the Terms and Conditions of the ERF Test Request Form, ERF makes no warranties or representations either express or implied with respect to this report. In no circumstances whatsoever shall ERF be liable for any consequential, special or incidental damages arising out of, or in connection with, this report. As per regulation of China Metrology Accreditation (CMA), a report without CMA accreditation logo will not serve as testimonial to the public for the purpose defined by CMA regulations.