



Bureau Veritas Shenzhen Co., Ltd

4/F, Block B, Minlida Industrial Building,
4 Zone Of Honghualing Industrial Park,
Xili Town, Nanshan District, Shenzhen,
Guangdong, P.R.C.

Tel:86-755-86000151 fax: 86-755-86000159

www.bureauveritas.com/cps

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.cps.bureauveritas.com> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT

POLYCONCEPT HONG KONG LTD
 5TH FLOOR, BLOCK B, ELDEX INDUSTRIAL
 BLDG, 21 MA TAU WEI ROAD, HUNG HOM,
 KOWLOON, HONG KONG

LAB LOCATION: SHENZHEN
LAB NUMBER: (8516)249-0212

ATTN: LI BING
CC: Yiko.sun@polyconceptgbs.com
 li.bing@polyconceptgbs.com

DATE IN: SEP 05, 2016
MOD. LOG IN: /
DATE OUT: SEP 12, 2016
REVISED DATE: /
WORKING DAYS: 6
PAGE: 2 OF 6

OVERALL RATING	
PASS	<u> X </u>
FAIL	<u> </u>
DATA	<u> </u>

TESTING FOR
EU 10/2011 OVERALL MIGRATION
FOSILICONE RING/BLACK PP LID
MIGRATION OF HEAVY METALS CONTENTS
FOR METAL IN CONTACT WITH FOODSTUFFS
FOR THE METAL NECK
EU 10/2011SP.MIGRATION OF HEAVY METALS
FOR BLACK PP LID

Sample Description:	10000200 OREGON DRINKING BOTTLE, 10000201 OREGON DRINKING BOTTLE, 10000202 OREGON DRINKING BOTTLE, 10000203 OREGON DRINKING BOTTLE, 10000204 OREGON DRINKING BOTTLE, 10000205 OREGON DRINKING BOTTLE, 10000206 OREGON DRINKING BOTTLE, 10000207 OREGON DRINKING BOTTLE, 10000208 OREGON DRINKING BOTTLE, 10000209 OREGON DRINKING BOTTLE								
Manufacturer:	10531		P.O. No.:	/					
Buyer:	/		Style:	/					
Country of Origin:	CHINA		Country of Destination:	EU					
Color:	/		SKU Number:	/					
Re-test:	Yes:	<input type="checkbox"/>	No:	<input checked="" type="checkbox"/>	Charge Vendor:	Yes:	<input checked="" type="checkbox"/>	No:	<input type="checkbox"/>
Previous Report No.:	/								



EXECUTIVE SUMMARY:

Sample Description Assigned by Laboratory:

Test Item	Description	Client Claimed Material
1	Black plastic	PP
2	Translucent soft plastic	Silicone
3	Golden printed with silvery metal	Metal

EU Food Contact Article Test

1. The submitted sample(s) demonstrated **SATISFACTORY** material qualities as the following overall migration test results complied with the requirement. **(PASS)**

Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments

Test Condition: 3% Acetic acid: 70°C, 2 hrs
50% Ethanol: 70 °C, 2 hrs

Simulant Used	Unit	Result		Maximum Allowable Limit	Analytical Tolerance
		1	2		
3% Acetic acid	mg/dm ²	<5	<5	10	+2
50% Ethanol	mg/dm ²	<5	<5	10	+3
Conclusion	-	PASS	PASS	-	-

Note: “<” = less than
mg/dm² = milligram per square decimetre

Method: EN 1186-1: 2002.

2. The submitted sample(s) demonstrated **SATISFACTORY** material qualities as the following Specific Migration of Heavy Metals test results complied with the requirement. **(PASS)**

Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments

Test Condition: 3% Acetic acid: 70°C, 2 hrs

Parameter	Simulant Used	Unit	Result	Maximum Allowable Limit
			1	
Barium (Ba)	3% Acetic acid	mg/kg	<0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	<0.005	0.05
Copper (Cu)	3% Acetic acid	mg/kg	<0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	<0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	<0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<3	25
Aluminum (Al)	3% Acetic acid	mg/kg	<0.1	1
Nickel (Ni)	3% Acetic acid	mg/kg	<0.002	0.02



Conclusion	-	-	PASS	-
-------------------	---	---	------	---

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

Method: EN 13130-1: 2004 and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).

3. The submitted sample(s) demonstrated **SATISFACTORY** material qualities as the following Migration of Heavy Metals Contents test results complied with the requirement. **(PASS)**

Migration of Heavy Metals Contents for Metal in Contact with Foodstuffs

Test Condition: 0.5 % Citric acid: 70 oC, 2 hr

Parameter	Unit	Result			Seven Times of Maximum Specific Release Limit(s) (SRLs) ^[a, b]
		3			
		1st Migrate	2nd Migrate	Sum of 1st & 2nd Migrate ^[b]	
Envelope volume/ Filling volume	cm ³				-
Volume of stimulant used	mL				-
Aluminum (Al)	mg/kg	23	2.6	25	35
Antimony (Sb)	mg/kg	<0.004	<0.004	<0.004	1.4
Chromium (Cr)	mg/kg	<0.1	<0.1	<0.1	7.0
Cobalt (Co)	mg/kg	<0.005	<0.005	<0.005	0.7
Copper (Cu)	mg/kg	<0.5	<0.5	<0.5	28
Iron (Fe)	mg/kg	<5	<5	<5	280
Magnesium (Mg)	mg/kg	<0.5	<0.5	<0.5	-
Manganese (Mn)	mg/kg	<0.1	<0.1	<0.1	12.6
Molybdenum (Mo)	mg/kg	<0.01	<0.01	<0.01	4.2
Nickel (Ni)	mg/kg	<0.02	<0.02	<0.02	4.9
Silver (Ag)	mg/kg	<0.01	<0.01	<0.01	0.56
Tin (Sn)	mg/kg	<5	<5	<5	700
Titanium (Ti)	mg/kg	<0.5	<0.5	<0.5	-
Vanadium (V)	mg/kg	<0.002	<0.002	<0.002	0.35
Zinc (Zn)	mg/kg	<1	<1	<1	35
Arsenic (As)	mg/kg	<0.001	<0.001	<0.001	0.07
Barium (Ba)	mg/kg	<0.1	<0.1	<0.1	8.4
Beryllium (Be)	mg/kg	<0.001	<0.001	<0.001	0.35
Cadmium (Cd)	mg/kg	<0.001	<0.001	<0.001	0.14
Lead (Pb)	mg/kg	<0.002	<0.002	<0.002	0.28
Lithium (Li)	mg/kg	<0.01	<0.01	<0.01	0.336
Mercury (Hg)	mg/kg	<0.0004	<0.0004	<0.0004	0.105
Thallium (Tl)	mg/kg	<0.00005	<0.00005	<0.00005	0.0035
Conclusion	-	-	-	PASS	-

Parameter	Unit	Result			Maximum Specific
		3			



		3rd Migrate	Release Limit(s) (SRLs)^[a]
Envelope volume/ Filling volume	cm ³		-
Volume of stimulant used	mL		-
Aluminum (Al)	mg/kg	1.7	5
Antimony (Sb)	mg/kg	<0.004	0.2
Chromium (Cr)	mg/kg	<0.1	1.0
Cobalt (Co)	mg/kg	<0.005	0.1
Copper (Cu)	mg/kg	<0.5	4
Iron (Fe)	mg/kg	<5	40
Magnesium (Mg)	mg/kg	<0.5	-
Manganese (Mn)	mg/kg	<0.1	1.8
Molybdenum (Mo)	mg/kg	<0.01	0.6
Nickel (Ni)	mg/kg	<0.02	0.7
Silver (Ag)	mg/kg	<0.01	0.08
Tin (Sn)	mg/kg	<5	100
Titanium (Ti)	mg/kg	<0.5	-
Vanadium (V)	mg/kg	<0.002	0.05
Zinc (Zn)	mg/kg	<1	5
Arsenic (As)	mg/kg	<0.001	0.01
Barium (Ba)	mg/kg	<0.1	1.2
Beryllium (Be)	mg/kg	<0.001	0.05
Cadmium (Cd)	mg/kg	<0.001	0.02
Lead (Pb)	mg/kg	<0.002	0.04
Lithium (Li)	mg/kg	<0.01	0.048
Mercury (Hg)	mg/kg	<0.0004	0.015
Thallium (Tl)	mg/kg	<0.00005	0.0005
Conclusion	-	PASS	-

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

Method: With reference to Metals and Alloys used in Food Contact Materials and articles - A Practical Guide to Manufacturers and Regulators (2013 1st Edition) published by European Directorate for the Quality of Medicines and HealthCare (EDQM), Chapter 3.

Remark: 1) ^[a] denotes as this (these) maximum specific release limit(s) was (were) referenced from Metals and Alloys used in Food Contact Materials and articles - A Practical Guide to Manufacturers and Regulators (2013 1st Edition) published by European Directorate for the Quality of Medicines and HealthCare (EDQM), Chapter 1, Article 4, Tables 1 and 2.

2) Appropriate test condition(s) was (were) selected according to Guidelines on Testing Conditions for Articles in Contact with Foodstuffs (With a Focus on Kitchenware) (2009 1st Edition) published by European Commission Joint Research Center (JRC).

3) Artificial tap water was prepared according to German Standard DIN 10531: 2011-06.

4) ^[b] denotes as the sum of the results of the first and second migrates should not be exceed seven times the SRL

5) Acceptable deviation on maximum specific release limit(s) (SRLs) of certain elements was recommended by the Consumer Health Protection Committee (CD-P-SC) of the Biological Standardisation, Network of Official Medicines Control Laboratories (OMCL) and Healthcare Department (DBO) dated on November 18, 2013 (With Document Number RZ/PH/2013-06790L SBA/mfs). See details in Comment.

Remark(s):

1. No protocol is enclosed with this report.
2. As per vendor request, only the following tests were conducted in this report:
 - EU 10/2011 Overall migration for silicone ring/black PP lid
 - Migration of Heavy Metals Contents for Metal in Contact with Foodstuffs for the metal neck
 - EU 10/2011sp.migration of Heavy Metals for black PP lid

NOTE: If there are questions or concerns regarding above report, please contact the appropriate lab persons.

Technical questions & concerns: Johnny-YH Dai / Lester Luo
(+86)755-32980233 / 32980234
Johnny-yh.dai@cn.bureauveritas.com
Lester.luo@cn.bureauveritas.com

General Enquiries: Ada Zhu / Arrow Qiu
(+86)755-32980226 / 32980225
Ada-a.zhu@cn.bureauveritas.com
Arrow.qiu@cn.bureauveritas.com

BUREAU VERITAS SHENZHEN CO., LTD

Kurt Chen

KURT CHEN
ASSISTANT MANAGER – HARDLINES DIVISION