

Test Report

Number: SHAH01403759

Applicant: QUANZHOU YETU SPORT GOODS CO., LTD.
NO.102 FURONG ROAD,SHANGCUN
COMMUNITY,CHANGTAI STREET,LICHENG
DISTRICT,QUANZHOU,FUJIAN,CHINA
Attn: ABBY

Date: Dec 23, 2021

Sample Description:

Item Name : TPU CUP / TPU SOFT BOTTLE /TPU Waterbladder
Buyer : Quanzhou Yetu Sport Goods Co.,LTD

Tests Conducted:

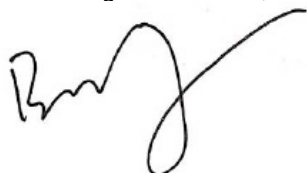
As requested by the applicant, for details refer to attached page(s).

Conclusion:

Tested Sample	Standard	Result
Tested components of submitted sample	European Commission Regulation No. 10/2011, amendment No. 2020/1245 and other amendments and Regulation No. 1935/2004 - Overall migration	Pass
	European Commission Regulation No. 10/2011 Annex II and Amendment No. 2016/1416 and No. 2017/752 and No. 2020/1245 and Regulation 1935/2004 on specific migration of heavy metal content	Pass
	European Commission Regulation No. 10/2011 Annex I and II and Amendment No. 2020/1245 and Regulation 1935/2004 on specific migration of primary aromatic amines	Pass
	European commission regulation No. 10/2011 annex I, amendment No. 2020/1245 and other amendments and Regulation 1935/2004 on specific migration of 1-Octene & 1-Hexene	Pass
	European commission regulation No. 10/2011 annex I, amendment No. 2020/1245 and other amendments and Regulation 1935/2004- specific migration of Acrylonitrile	Pass
	European commission regulation No. 10/2011, amendment No. 2020/1245 and other amendments and Regulation 1935/2004- specific migration of Butadiene	Pass
	Resolution ResAP(2004)5 on silicones used for food contact applications on overall migration .	Pass

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Bill Zhang
General Manager



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<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested component of submitted sample	European commission regulation No. 10/2011 annex I, amendment No. 2020/1245 and other amendments and Regulation 1935/2004 - specific migration of Bisphenol A	Pass
	European commission regulation No. 10/2011 annex I, amendment No. 2020/1245 and other amendments and Regulation 1935/2004 on specific migration of phthalate	Pass
	Commission Regulation (EU) No. 10/2011 and its amendments on Vinyl chloride monomer content in materials and articles	Pass
	European Commission Regulation No. 10/2011, amendment No. 2020/1245 and other amendments and Regulation 1935/2004-specific migration of Vinyl Chloride Monomer	Pass
	EU Technical Guide Council of Europe Resolution CM/Res (2013) 9 on metals and alloys Used in Food Contact Materials and Articles on specific migration of heavy metal	Pass
	Europe commission regulation No. 10/2011 and regulation 1935/2004 on phthalate content.	Pass

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Bill Zhang
General Manager



Test Report

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Tests Conducted

1 Overall Migration Test for Plastic Food Contacting Materials/Articles

As per Commission Regulation (EU) No. 10/2011 and its amendments on plastic materials and articles intended to come into contact with food.

I. Test Condition:

Aqueous food simulant	
Test No.	Time and Temperature
OM2	10 days at 40 °C

II. Test Results:

Tested Component	Result in mg/dm ²					
	3% (w/v) acetic acid			50% (v/v) ethanol		
	1 st	2 nd	3 rd	1 st	2 nd	3 rd
(1)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(2)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(3)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(4)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(5)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(7)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(8)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(10)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(11)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(12)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(13)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(14)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(15)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Limit in mg/dm ²	10			10		

Requirement:

Result of 3rd migration < SML, and

Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.

Ratio of food contact surface area to volume of component (1) used to establish the compliance of material or article = 8.8 dm² : 200 mL.

Ratio of food contact surface area to volume of component (2) used to establish the compliance of material or article = 2.4 dm² : 250 mL.

Ratio of food contact surface area to volume of component (3) used to establish the compliance of material or article = 0.5 dm² : 250 mL.

Ratio of food contact surface area to volume of component (4) used to establish the compliance of material or article = 0.3 dm² : 250 mL.

Ratio of food contact surface area to volume of component (5) used to establish the compliance of material or article = 0.1 dm² : 250 mL.

Ratio of food contact surface area to volume of component (7) used to establish the compliance of material or article = 0.3 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (8) used to establish the compliance of material or article = 0.3 dm² : 2000 mL.

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Ratio of food contact surface area to volume of component (10) used to establish the compliance of material or article
= 6.3 dm² : 2000 mL.
Ratio of food contact surface area to volume of component (11) used to establish the compliance of material or article
= 0.2 dm² : 2000 mL.
Ratio of food contact surface area to volume of component (12) used to establish the compliance of material or article
= 0.4 dm² : 2000 mL.
Ratio of food contact surface area to volume of component (13) used to establish the compliance of material or article
= 0.2 dm² : 2000 mL.
Ratio of food contact surface area to volume of component (14) used to establish the compliance of material or article
= 0.3 dm² : 2000 mL.
Ratio of food contact surface area to volume of component (15) used to establish the compliance of material or article
= 0.1 dm² : 2000 mL.

Remark: The submitted sample of component (10) decolorized after being soaked in simulant of 50% ethanol, and the simulant solution is likely milk white.

Tested Components: See component list in the last section of this report.

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Dec.20, 2021

To be continued



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Tests Conducted

2 Specific Migration of Heavy Metal

As per Commission Regulation (EU) No. 10/2011 and its amendments.

I. Test condition:

Food simulant: 3% (w/v) Acetic acid
Temperature: 40 °C

Time: 24 hours

II. Test result:

Test Component: (1) (2) (3) (4) (5) (7) (8) (10) (11) (12) (13) (14) (15)					
Element	Result (mg/kg)			Detection limit (mg/kg)	Limit (mg/kg)
	1 st migration	2 nd migration	3 rd migration		
Aluminum(Al)	ND	ND	ND	0.1	1
Antimony(Sb)	ND	ND	ND	0.01	0.04
Arsenic(As)	ND	ND	ND	0.01	ND
Barium(Ba)	ND	ND	ND	0.1	1
Cadmium(Cd)	ND	ND	ND	0.002	ND
Chromium(Cr)	ND	ND	ND	0.01	ND
Cobalt(Co)	ND	ND	ND	0.03	0.05
Copper(Cu)	ND	ND	ND	1	5
Iron(Fe)	ND	ND	ND	5	48
Lead(Pb)	ND	ND	ND	0.01	ND
Lithium(Li)	ND	ND	ND	0.1	0.6
Manganese(Mn)	ND	ND	ND	0.1	0.6
Mercury(Hg)	ND	ND	ND	0.01	ND
Nickel(Ni)	ND	ND	ND	0.01	0.02
Zinc(Zn)	ND	ND	ND	1	5
Europium(Eu)	ND	ND	ND	0.01	0.05
Gadolinium(Gd)	ND	ND	ND	0.01	0.05
Lanthanum(La)	ND	ND	ND	0.01	0.05
Terbium(Tb)	ND	ND	ND	0.01	0.05
Sum of (Eu, Gd, La, Tb)	ND	ND	ND	0.04	0.05

Requirement:

Result of 3rd migration < SML, and

Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.

Result of 1st, 2nd and 3rd migration < SML when SML limit is Not Detected (ND)

Ratio of food contact surface area to volume of component (1) used to establish the compliance of material or article = 8.8 dm² : 200 mL.

Ratio of food contact surface area to volume of component (2) used to establish the compliance of material or article = 2.4 dm² : 250 mL.

Ratio of food contact surface area to volume of component (3) used to establish the compliance of material or article = 0.5 dm² : 250 mL.

Ratio of food contact surface area to volume of component (4) used to establish the compliance of material or article = 0.3 dm² : 250 mL.

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Ratio of food contact surface area to volume of component (5) used to establish the compliance of material or article =
0.1 dm² : 250 mL.

Ratio of food contact surface area to volume of component (7) used to establish the compliance of material or article =
0.3 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (8) used to establish the compliance of material or article =
0.3 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (10) used to establish the compliance of material or article =
6.3 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (11) used to establish the compliance of material or article =
0.2 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (12) used to establish the compliance of material or article =
0.4 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (13) used to establish the compliance of material or article =
0.2 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (14) used to establish the compliance of material or article =
0.3 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (15) used to establish the compliance of material or article =
0.1 dm² : 2000 mL.

Remark: ND = Not detected(less than detection limit)

Tested component(s) : See component list in last section of this report.

Date Sample Received: Nov.12, 2021

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Tests Conducted

3 Specific Migration of Primary Aromatic Amines

With reference to Commission Regulation (EU) No. 10/2011 and its amendments, and JRC Technical Guidelines EUR 24815 EN 2011.

III. Test condition:

Food simulant: 3% (w/v) Acetic acid

Temperature: 40 °C

Time: 24 hours

IV. Test Result:

Test Componentu: (1) (2) (3) (4) (5) (7) (8) (10) (11) (12) (13) (14) (15)							
Test Item		CAS No.	Result (mg/kg)			Detection Limit (mg/kg)	Limit (mg/kg)
			1 st migration	2 nd migration	3 rd migration		
1	4-Aminodiphenyl	92-67-1	ND	ND	ND	0.002	ND
2	Benzidine	92-87-5	ND	ND	ND	0.002	ND
3	4-Chloro-o-Toluidine	95-69-2	ND	ND	ND	0.002	ND
4	2-Naphthylamine	91-59-8	ND	ND	ND	0.002	ND
5	o-Aminoazotoluene	97-56-3	ND	ND	ND	0.002	ND
6	2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND	0.002	ND
7	p-Chloroaniline	106-47-8	ND	ND	ND	0.002	ND
8	2,4-Diaminoanisole	615-05-4	ND	ND	ND	0.002	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND	0.002	ND
10	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	0.002	ND
11	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	0.002	ND
12	3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	0.002	ND
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	ND	ND	ND	0.002	ND
14	p-Cresidine	120-71-8	ND	ND	ND	0.002	ND
15	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND	ND	ND	0.002	ND
16	4,4'-Oxydianiline	101-80-4	ND	ND	ND	0.002	ND
17	4,4'-Thiodianiline	139-65-1	ND	ND	ND	0.002	ND
18	o-Toluidine	95-53-4	ND	ND	ND	0.002	ND
19	2,4-Toluylenediamine	95-80-7	ND	ND	ND	0.002	ND
20	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	0.002	ND
21	o-Anisidine	90-04-0	ND	ND	ND	0.002	ND
22	4-Aminoazobenzene	60-09-3	ND	ND	ND	0.002	ND
23	m-Phenylenediamine	108-45-2	ND	ND	ND	0.002	ND
24	Benzoguanamin	91-76-9	ND	ND	ND	0.05	5
25	4,4'-Methylenebis(3-chloro-2,6-diethylaniline	106246-33-7	ND	ND	ND	0.01	0.05
26	Total of other primary aromatic amine	-	ND	ND	ND	0.01	0.01

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Requirement:

Result of 3rd migration < SML, and

Result of 1st migration $\geq$ 2nd migration $\geq$ 3rd migration after consideration of result uncertainty.

Result of 1st, 2nd and 3rd migration < SML when SML limit is Not Detected (ND)

Ratio of food contact surface area to volume of component (1) used to establish the compliance of material or article = 8.8 dm² : 200 mL.

Ratio of food contact surface area to volume of component (2) used to establish the compliance of material or article = 2.4 dm² : 250 mL.

Ratio of food contact surface area to volume of component (3) used to establish the compliance of material or article = 0.5 dm² : 250 mL.

Ratio of food contact surface area to volume of component (4) used to establish the compliance of material or article = 0.3 dm² : 250 mL.

Ratio of food contact surface area to volume of component (5) used to establish the compliance of material or article = 0.1 dm² : 250 mL.

Ratio of food contact surface area to volume of component (7) used to establish the compliance of material or article = 0.3 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (8) used to establish the compliance of material or article = 0.3 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (10) used to establish the compliance of material or article = 6.3 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (11) used to establish the compliance of material or article = 0.2 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (12) used to establish the compliance of material or article = 0.4 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (13) used to establish the compliance of material or article = 0.2 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (14) used to establish the compliance of material or article = 0.3 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (15) used to establish the compliance of material or article = 0.1 dm² : 2000 mL.

Remark: ND = Not detected (less than detection limit)

Other primary aromatic amines are p-Phenyldiamine, Aniline, 2,4-Xylidine, 2,6-Xylidine, 3-Methoxyaniline, 2,6-Toluene-diamine, 1,5-Diaminonaphthalene, 4-Ethoxyaniline, 3-Amino-4-methoxybenzanilide, 3-Amino-4-methylbenzamide, 2-Amino-5-methylbenzoic acid

Tested component(s) : See component list in last section of the report.

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Dec.20, 2021

To be continued



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Tests Conducted

4 Specific Migration of 1-Octene & 1-Hexene for Plastic Food Contacting Materials/Articles

As per Commission Regulation (EU) No. 10/2011 and its amendments.

I. Test Condition:

Temperature: 40 °C

Time: 24 hours

II. Test Results:

1- Octene(CAS No.111-66-0):

Tested Component	Result in mg/kg					
	3% (w/v) acetic acid			50% (v/v) ethanol		
	1 st	2 nd	3 rd	1 st	2 nd	3 rd
(3)	ND	ND	ND	ND	ND	ND
(5)	ND	ND	ND	ND	ND	ND
(11)	ND	ND	ND	ND	ND	ND
(12)	ND	ND	ND	ND	ND	ND
Limit in mg/kg	15			15		

Reporting limit=5mg/kg

1-Hexene(CAS No. 592-41-6):

Tested Component	Result in mg/kg					
	3% (w/v) acetic acid			50% (v/v) ethanol		
	1 st	2 nd	3 rd	1 st	2 nd	3 rd
(3)	ND	ND	ND	ND	ND	ND
(5)	ND	ND	ND	ND	ND	ND
(11)	ND	ND	ND	ND	ND	ND
(12)	ND	ND	ND	ND	ND	ND
Limit in mg/kg	3			3		

Reporting limit=1mg/kg

Requirement:

Result of 3rd migration < SML, and

Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.

Ratio of food contact surface area to volume of component (3) used to establish the compliance of material or article = 0.5 dm² : 250 mL.

Ratio of food contact surface area to volume of component (5) used to establish the compliance of material or article = 0.1 dm² : 250 mL.

Ratio of food contact surface area to volume of component (11) used to establish the compliance of material or article = 0.2 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (12) used to establish the compliance of material or article = 0.4 dm² : 2000 mL.

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Remark: ND=Not detected (less than reporting limit)

Tested Components: See component list in the last section of this report.

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Dec.20, 2021

5 Specific Migration of Acrylonitrile for Organic Materials on Basis of Synthetic Material

As per commission regulation (EU) No. 10/ 2011 of 14 January 2011 and its amendments on plastic materials and articles intended to come into contact with food.

I . Test Condition:

Aqueous food simulant:

Temperature: 40 °C

Time: 24 hours

II . Test Results of Acrylonitrile(CAS No. 107-13-1):

Tested Component	Result in mg/kg					
	3% (w/v) acetic acid			50% (v/v) ethanol		
	1 st	2 nd	3 rd	1 st	2 nd	3 rd
(13)	ND	ND	ND	ND	ND	ND
(14)	ND	ND	ND	ND	ND	ND
(15)	ND	ND	ND	ND	ND	ND
Limit in mg/kg	Not detected			Not detected		

Requirement:

Result of 3rd migration < SML, and

Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.

Ratio of food contact surface area to volume of component (13) used to establish the compliance of material or article = 0.2 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (14) used to establish the compliance of material or article = 0.3 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (15) used to establish the compliance of material or article = 0.1 dm² : 2000 mL.

Remark: ND=Not detected

Detection Limit = 0.01 mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Dec.20, 2021

To be continued

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Tests Conducted

6 Specific Migration of Butadiene for Plastic Food Contacting Materials/Articles

As per commission regulation (EU) No. 10/ 2011 of 14 January 2011 and its amendments on plastic materials and articles intended to come into contact with food.

I .Test Condition:

Aqueous food simulant:

Temperature: 40 °C

Time: 24 hours

II . Test Results:

Tested Component	Result in mg/kg					
	3% (w/v) acetic acid			50% (v/v) ethanol		
	1 st	2 nd	3 rd	1 st	2 nd	3 rd
(13)	ND	ND	ND	ND	ND	ND
(14)	ND	ND	ND	ND	ND	ND
(15)	ND	ND	ND	ND	ND	ND
Limit in mg/kg	Not detected			Not detected		

Requirement:

Result of 3rd migration < SML, and

Result of 1st migration $\geq$ 2nd migration $\geq$ 3rd migration after consideration of result uncertainty.

Result of 1st, 2nd and 3rd migration < SML when SML limit is Not Detected (ND)

Ratio of food contact surface area to volume of component (13) used to establish the compliance of material or article = 0.2 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (14) used to establish the compliance of material or article = 0.3 dm² : 2000 mL.

Ratio of food contact surface area to volume of component (15) used to establish the compliance of material or article = 0.1 dm² : 2000 mL.

Remark: ND=Not detected

Detection Limit = 0.01 mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Dec.20, 2021

To be continued

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Tests Conducted

7 Overall Migration Test For Silicones Food Contacting Materials/Articles

With reference to EU JRC Guideline Of testing conditions for kitchenware articles in contact with foodstuffs: plastics, metals, silicon & rubber, EU No 10/2011 and its amendment

I. Test Condition:

Tested component	Food simulant	Time(hour)	Temperature(°C)
(6) (9)	50% (v/v) Ethanol	240	40
	3% (w/v) Acetic acid	240	40

II. Test Results:

Food simulant	Test Component	Result (mg/dm ²)	Limit (mg/dm ²)
(B) 3% (w/v) acetic acid	(6) (9)	<1.0	10
(C) 50% (v/v) ethanol		<1.0	10

Ratio of food contact surface area to volume of component (6) used to establish the compliance of material or article = 0.2 dm² : 250 mL.

Ratio of food contact surface area to volume of component (9) used to establish the compliance of material or article = 0.1 dm² : 2000mL.

Tested Components: See component list in the last section of this report.

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Dec.20, 2021

8 Specific Migration of Bisphenol A for Plastic Food Contacting Materials/Articles

As per Commission Regulation (EU) No. 10/2011 and its amendments (including amendment No. 2018/213 and amendment No. 2020/1245) on plastic materials and articles intended to come into contact with food. And followed by Liquid Chromatography-Mass Spectrometry (LC-MS) analysis.

I. Test Condition:

Aqueous food simulant:

Temperature: 40 °C

Time: 24 hours

II. Test Results of Bisphenol A (CAS No. 80-05-7):

Tested Component	Result in mg/kg		
	3% (w/v) acetic acid		
	1 st	2 nd	3 rd
(10)	ND	ND	ND
Limit in mg/kg	0.05		

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Requirement:

Result of 3rd migration < SML, and

Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.

Ratio of food contact surface area to volume of component (10) used to establish the compliance of material or article = 6.3 dm² : 2000 mL.

Remark: Report limit=0.01mg/kg

ND=Not detected (less than report limit)

Tested Components: See component list in the last section of this report.

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Dec.20, 2021

9 Specific Migration of Phthalates Test for Plastic Food Contacting Materials/Articles

As per commission regulation (EU) No. 10/ 2011 of 14 January 2011 and its amendments on plastic materials and articles intended to come into contact with food.

I .Test Condition:

Aqueous food simulant:

Temperature: 40 °C

Time: 24 hours

II . Test Results:

Butyl Benzy Phthalate (BBP)(CAS No.85-68-7):

Tested Component	Result in mg/kg					
	3% (w/v) acetic acid			50% (v/v) ethanol		
	1 st	2 nd	3 rd	1 st	2 nd	3 rd
(10)	<1	<1	<1	<1	<1	<1
Limit in mg/kg	30			30		

Bis (2-Ethylhexyl) Phthalate (DEHP)(CAS No.117-81-7):

Tested Component	Result in mg/kg					
	3% (w/v) acetic acid			50% (v/v) ethanol		
	1 st	2 nd	3 rd	1 st	2 nd	3 rd
(10)	<1	<1	<1	<1	<1	<1
Limit in mg/kg	1.5			1.5		

Dibutyl Phthalate (DBP):

Tested Component	Result in mg/kg					
	3% (w/v) acetic acid			50% (v/v) ethanol		
	1 st	2 nd	3 rd	1 st	2 nd	3 rd
(10)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Limit in mg/kg	0.3			0.3		

To be continued

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Tests Conducted

Di-(Iso-Nonyl) Phthalate (DINP)(CAS No. 84-74-2) and Di-(Iso-Decyl) Phthalate (DIDP)(CAS No.26761-40-0):

Tested Component	Result in mg/kg					
	3% (w/v) acetic acid			50% (v/v) ethanol		
	1 st	2 nd	3 rd	1 st	2 nd	3 rd
(10)	<1	<1	<1	<1	<1	<1
Limit in mg/kg	9			9		

Diallyl Phthalate (DAP)(CAS No. 131-17-9):

Tested Component	Result in mg/kg					
	3% (w/v) acetic acid			50% (v/v) ethanol		
	1 st	2 nd	3 rd	1 st	2 nd	3 rd
(10)	ND	ND	ND	ND	ND	ND
Limit in mg/kg	ND			ND		

Requirement:

Result of 3rd migration < SML, and

Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.

Ratio of food contact surface area to volume of component (10) used to establish the compliance of material or article = 6.3 dm² : 2000 mL.

Remark: ND = Not Detected

Detection Limit of DAP=0.01mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Dec.20, 2021

10 Vinyl chloride monomer content

As per Commission Regulation (EU) No. 10/2011 and its amendments , by Headspace Gas-Chromatographic Mass Spectrometric (HS-GC/MS) analysis.

<u>Tested component</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(10)	<0.1	1(Max)

Remark: ppm = Parts per million = mg/kg

Detection Limit = 0.1 ppm

Tested Components: See component list in the last section of this report.

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Dec.20, 2021

To be continued

Test Report

Number: SHAH01403759

Tests Conducted

11 Specific Migration of Vinyl Chloride Monomer Content

As per Commission Regulation (EU) No. 10/2011 and its amendments on plastic materials and articles intended to come into contact with food.

I . Test Condition:

Aqueous food simulant:

Temperature: 40 °C

Time: 24 hours

II . Test Results:

Tested Component	Result in mg/kg					
	3% (w/v) acetic acid			50% (v/v) ethanol		
	1 st	2 nd	3 rd	1 st	2 nd	3 rd
(10)	ND	ND	ND	ND	ND	ND
Limit in mg/kg	ND			ND		

Requirement:

Result of 3rd migration < SML, and

Result of 1st migration $\geq$ 2nd migration $\geq$ 3rd migration after consideration of result uncertainty.

Result of 1st, 2nd and 3rd migration < SML when SML limit is Not Detected (ND)

Ratio of food contact surface area to volume of component (10) used to establish the compliance of material or article = 6.3 dm² : 2000 mL.

Remark: Detection limit = 0.01 mg/kg food simulant
ND = Not detected

Tested components: See component list in the last section of this report.

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Dec.20, 2021

To be continued

Test Report

Number: SHAH01403759

Tests Conducted

12 Release Testing on Metals and Alloys Used in Food Contact Materials and Articles

With reference to EU Technical Guide "Council of Europe Resolution CM/Res(2013)9 on metals and alloys Used in Food Contact Materials and Articles". Migration test was conducted and heavy metal content was determined by Inductively Coupled Plasma Mass Spectrometer (ICP-MS) with reference to ISO 17294-2:2016 respectively.

I . Test Condition:

Food Simulant: Artificial tap water (prepare according DIN 10531 Clause 4.2.2.2)
Temperature: °C Time: days/ hours / minutes

II . Test Result:

Elements	Result 1 st test (mg/kg)	Result 2 nd test (mg/kg)	Result 1 st test + Result 2 nd test (mg/kg)	7*Limit (mg/kg)	Result 3 rd test (mg/kg)	Limit (mg/kg)
Silver (Ag)	<0.01	<0.01	<0.01	0.56	<0.01	0.08
Aluminium (Al)	<1	<1	<1	35	<1	5
Chromium (Cr)	<0.05	<0.05	<0.05	1.75	<0.05	0.250
Cobalt (Co)	<0.004	<0.004	<0.004	0.14	<0.004	0.02
Copper (Cu)	<0.5	<0.5	<0.5	28	<0.5	4
Iron (Fe)	<1	<1	<1	280	<1	40
Manganese (Mn)	<0.1	<0.1	<0.1	12.6	<0.1	1.8
Molybdenum (Mo)	<0.02	<0.02	<0.02	0.84	<0.02	0.12
Nickel (Ni)	<0.02	<0.02	<0.02	0.98	<0.02	0.14
Tin (Sn)	<10	<10	<10	700	<10	100
Vanadium (V)	<0.002	<0.002	<0.002	0.07	<0.002	0.01
Zinc (Zn)	<1	<1	<1	35	<1	5
Antimony (Sb)	<0.005	<0.005	<0.005	0.28	<0.005	0.04
Arsenic (As)	<0.0004	<0.0004	<0.0004	0.014	<0.0004	0.002
Barium (Ba)	<0.1	<0.1	<0.1	8.4	<0.1	1.2
Beryllium (Be)	<0.002	<0.002	<0.002	0.07	<0.002	0.01
Cadmium (Cd)	<0.001	<0.001	<0.001	0.035	<0.001	0.005
Lead (Pb)	<0.002	<0.002	<0.002	0.070	<0.002	0.010
Lithium (Li)	<0.005	<0.005	<0.005	0.336	<0.005	0.048
Mercury (Hg)	<0.0005	<0.0005	<0.0005	0.021	<0.0005	0.003
Thallium (Tl)	<0.00002	<0.00002	<0.00002	0.0007	<0.00002	0.0001
Magnesium (Mg)	<5	<5	<5	-	<5	-
Titanium (Ti)	<0.1	<0.1	<0.1	-	<0.1	-

Remark: The submitted sample/component is a repeated use article. The migration test was carried out three times on the same article. The sum of the results of the first and second tests should not exceed seven times the limit (Result 1st test + Result 2nd test < 7 * limit) and the Result 3rd test shouldn't exceed the limit.

As per client's request, the above condition and food simulant was / were used for the test.

Tested Component: See component list in the last section of this report.

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Nov.18, 2021

To be continued

Test Report

Number: SHAH01403759

Tests Conducted

13 Phthalate Content

By solvent extraction and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

	Result (% w/w)	Limit (% w/w) (max.)
	(10)	
Dibutyl Phthalate (DBP)	<0.01	0.05
Diethyl Hexyl Phthalate (DEHP)	<0.01	0.1
Benzyl Butyl Phthalate (BBP)	<0.01	0.1
Di-(iso-nonyl) Phthalate (DINP)	<0.01	0.1
Di-(iso-decyl) Phthalate (DIDP)	<0.01	0.1

Remark: Detection Limit = 0.01% (w/w)

Tested Components: See component list in the last section of this report.



Picture Of Sample

Date Sample Received: Nov.12, 2021

Testing Period: Nov.12, 2021 to Nov.17, 2021

To be continued



Test Report

Number: SHAH01403759

Tests Conducted

Components List:

- (1) Blue plastic body (TPU)
- (2) Grey plastic body (TPU)
- (3) Semi-transparent plastic lid (PP)
- (4) Blue plastic bottle neck (TPU)
- (5) Black plastic bite mouthpiece (PE)-blue bottle
- (6) Semi-transparent silicone bite mouthpiece (silicone)
- (7) Blue plastic handle on cup (TPU)
- (8) Semi-transparent plastic on grey waterbladder body (TPU)
- (9) Red silicone sealing ring
- (10) Transparent plastic tub (PVC)
- (11) Black plastic shutoff valve (PE)
- (12) Black plastic corner- shutoff valve (PE)
- (13) Black plastic tube connector (ABS)
- (14) Black plastic connected with waterbladder body –big(ABS)
- (15) Black plastic connected with waterbladder body –small(ABS)
- (16) Slivery metal spring

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

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