



# TEST REPORT

Report No.: STSGZ2211163048E

Date: 13-Dec-2022

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**Applicant :** Mid Ocean Brands B.V.

**Address:** 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

**Sample Name:** Tritan bottle

**Model/Style/Item #:** M06903

**Receiving Date:** 16-Nov-2022, 1-Dec-2022

**Test Period:** From 16-Nov-2022 to 2-Dec-2022

**Add Information:** -

## Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	<b>PASS</b>
2	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	<b>PASS</b>
3	Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	<b>PASS</b>

\*\*\*\*\*Please refer to the following page for detailed results\*\*\*\*\*

Signed for and on behalf of STS

Mark Mai  
(Technical Director)



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#	Test Item(s)	Reference Standard/Method	Result
4	Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 1186-1:2002 & EN 1186-3:2002	<b>PASS</b>
5	Overall migration - Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material	EN 1186-1:2002 & EN 1186-3:2002	<b>PASS</b>
6	Specific migration of Heavy Metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	EN 13130-1: 2004, determined by ICP-OES	<b>PASS</b>
7	Specific migration of Primary Aromatic Amine - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	EN 13130-1:2004, determined by GC/MS	<b>PASS</b>
8	Bisphenol A (BPA) content - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	In-house Method, determined by LC-MS	<b>PASS</b>
9	Volatile Compounds Content - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	Order 25/11/1992	<b>PASS</b>
10	Peroxides value - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	French pharmacopoeia method	<b>PASS</b>
11	Organotin for Silicone Materials in Contact with Foodstuffs - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	EN 13130-1:2004, determined by ICP-OES	<b>PASS</b>
12	Bisphenol A Contents - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	In-house Method, determined by LC-MS	<b>PASS</b>
13	Polycyclic-aromatic hydrocarbons (PAHs) content-- Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013	AfPS-GS-2019-01:PAK, determined by GC-MS	<b>PASS</b>
14	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	<b>PASS</b>
15	Microwave safe test	EN 15284:2007	<b>PASS</b>

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## Result:

### 1. Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound	Material		Limit (mg/kg)	RL (mg/kg)
	1+4	2+3		
1 Lead(Pb) CAS#7439-92-1	N.D.	N.D.	500	10
<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

### 2. Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound	Result(s)		Limit (mg/kg)	RL (mg/kg)
	1+4	2+3		
1 Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	10
<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

### 3. Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Compound	Result(s)		Limit (%)	RL (%)
	1+4	2+3		
1 DBP Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	-	0.005
2 BBP Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	-	0.005
3 DEHP Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	-	0.005

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4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	0.1	-
<b>Conclusion</b>			<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit  
 (b) N.D.: Not detected (result is less than RL)  
 (c) The data of #4 was retesting result.

**4. Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245  
 EN 1186-1:2002 & EN 1186-3:2002**

Test specification		Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		2				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	10% Ethanol, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Test specification		Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		3				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	10% Ethanol, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

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Test specification		Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		4				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	10% Ethanol, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
 (b) RL: Report limit  
 (c) N.D.: Not detected (result is less than RL)

## 5. Overall Migration for Silicone Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2002

Test specification		Material			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		4				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	10% Ethanol, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
 (b) RL: Report limit  
 (c) N.D.: Not detected (result is less than RL)

## 6. Specific migration of Heavy Metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213 EN 13130-1: 2004, determined by ICP-OES

Test condition: 3%Acetic acid, 70°C, 2h

Compound		Result			Limit (mg/kg)	RL (mg/kg)
		2				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1

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2	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
3	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
4	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
5	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
6	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
7	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
8	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
9	Europium (Eu)	N.D.	N.D.	N.D.	0.05	0.01
10	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05	0.01
11	Iron (Fe)	N.D.	N.D.	N.D.	48	1
12	Lanthanum (La)	N.D.	N.D.	N.D.	0.05	0.01
13	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
14	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
15	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
16	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
17	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
18	Terbium (Tb)	N.D.	N.D.	N.D.	0.05	0.01
19	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
	<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

Compound	Result			Limit (mg/kg)	RL (mg/kg)	
	3					
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>			
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1
2	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
3	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01

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4	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
5	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
6	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
7	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
8	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
9	Europium (Eu)	N.D.	N.D.	N.D.	0.05	0.01
10	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05	0.01
11	Iron (Fe)	N.D.	N.D.	N.D.	48	1
12	Lanthanum (La)	N.D.	N.D.	N.D.	0.05	0.01
13	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
14	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
15	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
16	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
17	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
18	Terbium (Tb)	N.D.	N.D.	N.D.	0.05	0.01
19	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
	<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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## 7. Specific migration of Primary Aromatic Amine EN 13130-1:2004, determined by GC/MS

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

Compound		Result			Limit (mg/kg)	RL (mg/kg)
		2				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
	<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

Compound		Result			Limit (mg/kg)	RL (mg/kg)
		3				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
	<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
 (b) RL: Report limit  
 (c) N.D.: Not detected (result is less than RL)

## 8. Bisphenol A (BPA) content In-house Method,determined by LC-MS

Test Item		Material			Client's Limit (mg/kg)	RL (mg/kg)
		2	3	4		
1	Bisphenol A	N.D.	N.D.	N.D.	Not Detected	0.01
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit  
 (b) N.D.: Not detected (result is less than RL)

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## 9. Volatile Compounds Content for Silicone Materials in Contact with Foodstuffs Order 25/11/1992

Test condition: 200°C, 4h

Compound		Material	Limit (%)	RL (%)
		4		
1	Volatile Compounds	0.14	0.5	0.1
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit

## 10. Peroxide Value for Silicone Materials in Contact with Foodstuffs French pharmacopoeia method

Compound		Material	Requirement
		4	
1	Peroxide Value	Negative	Negative
<b>Conclusion</b>		<b>PASS</b>	-

## 11. Organotin Content for Silicone Materials in Contact with Foodstuffs EN 13130-1:2004, determined by ICP-OES

Test condition: 3% acetic acid, 70°C, 2h

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		4		
1	Organotin(as Sn)	N.D.	0.1	0.01
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit

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## 12. Bisphenol A (BPA) content - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992

In-house Method, determined by LC-MS

Test Item		Material		Client's Limit (mg/kg)	RL (mg/kg)
		4			
1	Bisphenol A	N.D.		Not Detected	0.01
<b>Conclusion</b>		<b>PASS</b>		-	-

## 13. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013

AfPS-GS-2019-01:PAK, determined by GC-MS

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		category I <sup>1</sup>			
		1+4	2+3		
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	1	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	1	0.2
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	1	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	1	0.2
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

Remark: (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)  
1: Material category

Category I: Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

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Category II : Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

## 14. Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003) BS EN 12875-1:2005

	Sample	5
After 10 cycles	Color <sup>1)</sup>	0
	Gloss	0
	Clouding	0
	Resistant deposits and iridescent layers <sup>2)</sup>	0
	Other aspects	0

Remark(s): 1.If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen.  
 2).For the elimination of easily removable deposits.  
 3).See photo bar for test photos

Note: Pictures are for reference only. Actual colours of the pictures may vary due to lighting and output process.  
 Evaluation of inspection criteria quoted from BS EN 12875-1:2005.

Classification	Rating
0	No visible change
1	First discernible change
2	Clearly visible change

Requirements quoted from Publicly Available Specification PAS 54: 2003  
 Articles that are designated "dishwasher resistant", "dishwasher proof", "dishwasher safe" or any other similar description that suggests that the articles can be safely cleaned in a dishwasher shall, either show no visible change compared with untreated tableware (Classification 0) or show very slightly visible change (Classification 1) but shall not show clearly visible change (Classification 2)

## 15. Microwave safe test EN 15284:2007

Sample Description: glass					
Sample	Arcing	Max surface Temperature of sample after short period	Visual damage checking required for glass sample		Rating
			Short period of heating		

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Guangzhou Depuhua Test Services Co. Ltd.

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		heating(°C)	Cracking	Color	Scaling	
<b>5A</b>	0	37.8	0	0	0	<b>Pass</b>
<b>5B</b>	0	37.5	0	0	0	<b>Pass</b>
<b>5C</b>	0	37.6	0	0	0	<b>Pass</b>

## Sample Description: glass

Sample	Arcing	Max surface Temperature of sample after short period heating(°C)	Visual damage checking required for glass sample			Rating
			long period of heating			
			Cracking	Color	Scaling	
<b>5A</b>	0	37.8	0	0	0	<b>Pass</b>
<b>5B</b>	0	37.5	0	0	0	<b>Pass</b>
<b>5C</b>	0	37.6	0	0	0	<b>Pass</b>

Remark(s): (a) 0:No visible change and Suitable for reuse

## Requirement:

	The maximum surface temperature after short period heating shall not exceed the following limit value:
Ceramic, glass-ceramic or glass	56°C
Plastics:	60°C

Observation Parameter(s)	Visual damage checking required for the sample
Cracking	No visible change
Color <sup>a</sup>	No visible change
Melting <sup>b</sup>	No visible change
Deformation	No visible change
Suitability for re-use <sup>c</sup>	Suitable for reuse
Charring	No visible change

Remark(s): (1) <sup>a</sup> = if several colours are present on one article to be inspected, the colour with the greatest change shall be chosen  
(2) <sup>b</sup> = article shall not be too soft to handle  
(3) <sup>c</sup> = article shall be washable and stain resistant

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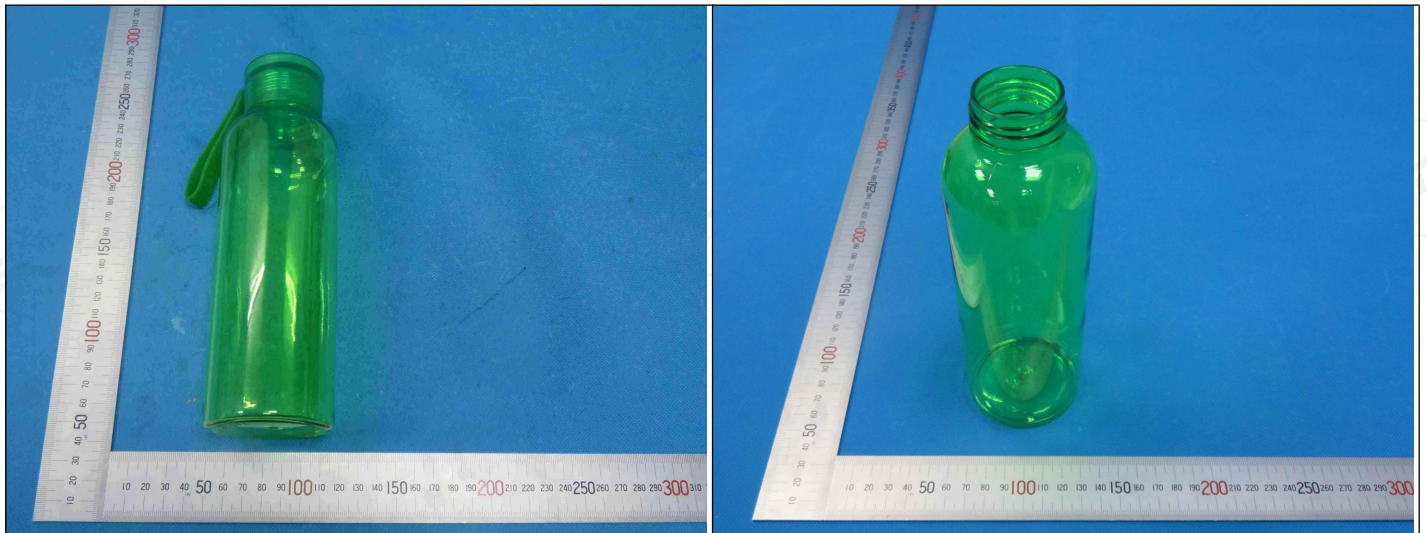
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## Material List:

Material #	Position / Sample Description	Material
1	Green soft plastic,handle	-
2	Translucent green plastic,lid	PS
3	Transparent green plastic,bottle	Tritan
4	Translucent silicone,sealing article	silica gel
5		-

Remark(s): (a) The test material point is selected by client,the chemical test conclusions in the report only apply to the test material.  
(b) The data of #3 was retesting result.

## Photo(s):



Test Sample Photo

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Customer additional photo

\*\*\*\*\* END OF REPORT \*\*\*\*\*

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# 签发测试报告条款

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All samples and goods are accepted by the Guangzhou Depuhua Test Services Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
2. 由此测试申请所发出的任何报告(以下简称[报告]),本公司会严格为客户保密。未经本公司的书面同意,报告的整体或部分不得复制,也不得用于广告或授权的其他用途。然而,客户可以将本公司印制的报告或认可的副本,向其客户、供货商或直接相关的其它人出示或提交。除非相关部门、法律或法规要求,否则未经客户同意,本公司不得将报告内容向任何第三方讨论或披露。

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3. 除非相关部门、法律或法院要求,否则未经公司预先书面同意,本公司毋需,也并无义务到法院对有关报告作证。

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The Report refers only to the tested sample (Sample information is provided by customer) and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
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In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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