

# TEST REPORT

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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:** RPET bottle pp fip lid**Model:** MO2755**Vendor code :** 107978**Receiving Date:** Apr 28,2025; Jun 16,2025**Test Period:** From Apr 28,2025 to Jun 17,2025**Add Information:** -**Test Summary:**

#	Test item(s)	Result
1	Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013 Polycyclic-aromatic hydrocarbons (PAHs) content	PASS
2	Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 Cadmium content	PASS
3	Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006. Phthalate content ( DIBP、DEHP、DBP、BBP、DINP、DIDP 、DNOP)	PASS
4	Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 Total Lead content	PASS

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

Authorized Signatory

Mark Mai  
(Technical Director)

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#	Test Item(s)	Conclusion
<b>Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2024/3190 - For Plastic Material</b>		
5	Overall migration	PASS
6	Specific migration of Heavy Metal	PASS
7	Specific migration of Primary Aromatic Amine	PASS
8	Bisphenol A (BPA) content	PASS
<b>Regulation (EC) No 1935/2004,the Commission Regulation (EU) 2024/3190 and Council of Europe Resolution AP (2004) 5- For Silicone Material</b>		
9	Overall migration	PASS
10	Bisphenol A Contents	PASS
11	Specific migration of Bisphenol A (BPA)	PASS
<b>French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material</b>		
12	Overall migration	PASS
13	Specific migration of Bisphenol A (BPA)	PASS
14	Bisphenol A Contents	PASS
15	Specific migration of Organotin (as Tin)	PASS
16	Peroxide Value	PASS
17	Volatile organic matter	PASS

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## Result:

1. 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

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

Test item(s)		Results				Limit (mg/kg)	MDL (mg/kg)
		category I* <sup>1</sup>					
		6	7	8	9		
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	N.D.	1	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	N.D.	1	0.2
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	N.D.	1	0.2

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7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	N.D.	N.D.	1	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	N.D.	1	0.2
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark: (a) mg/kg: milligram per kilogram  
(b) MDL: Method detected limit  
(c) N.D.: Not detected (result is less than MDL)  
1: Result 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.  
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.

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

Test item(s)		Result						Limit (mg/kg)	MDL (mg/kg)
		1	2	3	4	5	6		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	10
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Test item(s)		Result			Limit (mg/kg)	MDL (mg/kg)
		7	8	9		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	100	10
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

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**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**

Test item(s)			Result						Limit (%)	MDL (%)
			1	2	3	4	5	6		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0/68515-48-0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.010
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.010
-	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	-
-	Sum of 5, 6 & 7		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	-
-	<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Test item(s)			Result			Limit (%)	MDL (%)
			7	8	9		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0/68515-48-0	N.D.	N.D.	N.D.	-	0.010
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	-	0.010
-	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	0.1	-

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-	Sum of 5, 6 & 7	N.D.	N.D.	N.D.	0.1	-
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

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

Test item(s)		Result					Limit (mg/kg)	MDL (mg/kg)
		1	2	3	4	5		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	N.D.	500	10
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Test item(s)		Result						Limit (mg/kg)	MDL (mg/kg)
		6	7	8	9	10	11		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500	10
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2024/3190 - For Plastic Material

## 5. Overall migration EN 1186-1:2002 & EN 1186-3:2022

Test Item(s)		Result			Limit (mg/dm <sup>2</sup> )	MDL (mg/dm <sup>2</sup> )
		2				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	3%acetic acid ,70℃ , 2h	N.D.	N.D.	N.D.	10	3
2	50%Ethanol,70℃ , 2h	N.D.	N.D.	N.D.	10	3
-	Conclusion	-	-	PASS	-	-

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Test Item(s)		Result			Limit (mg/dm <sup>2</sup> )	MDL (mg/dm <sup>2</sup> )
		7				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	3%acetic acid ,40℃ , 10d	N.D.	N.D.	N.D.	10	3
2	50%Ethanol,40℃ , 10d	N.D.	N.D.	N.D.	10	3
-	Conclusion	-	-	PASS	-	-

Test Item(s)		Result			Limit (mg/dm <sup>2</sup> )	MDL (mg/dm <sup>2</sup> )
		8				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	3%acetic acid ,70℃ , 2h	N.D.	N.D.	N.D.	10	3
2	50%Ethanol,70℃ , 2h	N.D.	N.D.	N.D.	10	3
-	Conclusion	-	-	PASS	-	-

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

## 6. Specific migration of Heavy Metal EN 13130-1: 2004, determined by ICP-OES,ICP-MS,IC

Test condition: 3%Acetic acid, 70℃ , 2h

Test Item(s)		Result(s)			Limit (mg/kg)	MDL (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
2	Ammonium	N.D.	N.D.	N.D.	-	0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
5	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002



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7	Calcium(Ca)	0.3	N.D.	N.D.	-	0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.	-	0.1
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
20	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
21	Potassium(K)	N.D.	N.D.	N.D.	-	0.1
22	Sodium(Na)	N.D.	N.D.	0.4	-	0.1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
-	<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

Test Item(s)		Result(s)			Limit (mg/kg)	MDL (mg/kg)
		8				
		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	Ammonium	N.D.	N.D.	N.D.	-	0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01



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5	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
7	Calcium(Ca)	0.2	N.D.	N.D.	-	0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.	-	0.1
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
20	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
21	Potassium(K)	N.D.	N.D.	N.D.	-	0.1
22	Sodium(Na)	N.D.	N.D.	N.D.	-	0.1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
-	<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

Test condition: 3%Acetic acid, 40℃ , 10d

Test Item(s)		Result(s)			Limit (mg/kg)	MDL (mg/kg)
		7				
		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	Ammonium	N.D.	N.D.	N.D.	-	0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
5	Barium (Ba)	0.1	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
7	Calcium(Ca)	1.0	N.D.	N.D.	-	0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.	-	0.1
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
20	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
21	Potassium(K)	N.D.	N.D.	N.D.	-	0.1
22	Sodium(Na)	N.D.	N.D.	N.D.	-	0.1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
-	<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

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Remark(s): (a) mg/kg: milligram per kilogram  
(b) MDL: Method detected limit  
(c) N.D.: Not detected (result is less than MDL)  
(d)\*:The sum of all lanthanide substances migrating to the food or food simulant does not exceed the specific migration limit of 0,05 mg/kg

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

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

Test Item(s)		Result(s)			Limit (mg/kg)	MDL (mg/kg)
		2				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	biphenyl-4-ylamine 4- aminobiphenyl xenylamine CAS No.:92-67-1	N.D.	N.D.	N.D.	0.002	0.002
2	Benzidine CAS No.:92-87-5	N.D.	N.D.	N.D.	0.002	0.002
3	4-chloro-o-toluidine CAS No.:95-69-2	N.D.	N.D.	N.D.	0.002	0.002
4	2-Naphthylamine CAS No.:91-59-8	N.D.	N.D.	N.D.	0.002	0.002
5	o-aminoazotoluene 4- amino-2',3- dimethylazobenzene 4-o-tolylazo-o-toluidine CAS No.:97-56-3	N.D.	N.D.	N.D.	0.002	0.002
6	5-nitro-o-toluidine CAS No.:99-55-8	N.D.	N.D.	N.D.	0.002	0.002
7	4-Chloroaniline CAS No.:106-47-8	N.D.	N.D.	N.D.	0.002	0.002
8	4-methoxy-m- phenylenediamine CAS No.:615-05-4	N.D.	N.D.	N.D.	0.002	0.002
9	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane CAS No.:101-77-9	N.D.	N.D.	N.D.	0.002	0.002
10	3,3'-dichlorobenzidine 3,3'- dichlorobiphenyl-4,4'- ylenediamine CAS No.:91-94-1	N.D.	N.D.	N.D.	0.002	0.002
11	3,3'-dimethoxybenzidine o- dianisidine CAS No.:119-90-4	N.D.	N.D.	N.D.	0.002	0.002
12	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS No.:119-93-7	N.D.	N.D.	N.D.	0.002	0.002
13	4,4'-methylenedi-o-toluidine CAS No.:838-88-0	N.D.	N.D.	N.D.	0.002	0.002
14	6-methoxy-m-toluidine p- cresidine CAS No.:120-71-8	N.D.	N.D.	N.D.	0.002	0.002

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15	4,4'-methylene-bis-(2-chloro- aniline) 2,2'-dichloro-4,4'-methylene- dianiline CAS No.:101-14-4	N.D.	N.D.	N.D.	0.002	0.002
16	4,4'-oxydianiline CAS No.:101-80-4	N.D.	N.D.	N.D.	0.002	0.002
17	4,4'-thiodianiline CAS No.:139-65-1	N.D.	N.D.	N.D.	0.002	0.002
18	o-toluidine 2-aminotoluene CAS No.:95-53-4	N.D.	N.D.	N.D.	0.002	0.002
19	4-methyl-m-phenylenediamine CAS No.:95-80-7	N.D.	N.D.	N.D.	0.002	0.002
20	2,4,5-trimethylaniline CAS No.:137-17-7	N.D.	N.D.	N.D.	0.002	0.002
21	o-anisidine 2-methoxyaniline CAS No.:90-04-0	N.D.	N.D.	N.D.	0.002	0.002
22	4-amino azobenzene CAS No.:60-09-3	N.D.	N.D.	N.D.	0.002	0.002
23	m-Phenylenediamine (m- PDA) CAS No.:108-45-2	N.D.	N.D.	N.D.	0.002	0.002
24	1,5- Diaminenaphthalene CAS No.:2243-62-01	N.D.	N.D.	N.D.	-	0.002
25	Aniline (ANL) CAS No.:62-53-3	N.D.	N.D.	N.D.	-	0.002
26	2,4-Dimethylaniline (2,4-DMA) CAS No.:95-68-1	N.D.	N.D.	N.D.	-	0.002
27	2,6-Dimethylaniline (2,6-DMA) CAS No.:87-62-7	N.D.	N.D.	N.D.	-	0.002
28	m-Phenylenediamine (m- PDA) CAS No.:108-45-2	N.D.	N.D.	N.D.	-	0.002
29	p-Phenylenediamine (p-PDA) CAS No.:106-50-3	N.D.	N.D.	N.D.	-	0.002
30	2,6-Toluenediamine (2,6- TDA) CAS No.:823-40-5	N.D.	N.D.	N.D.	-	0.002
-	Sum of 24~30	N.D.	N.D.	N.D.	0.01	-
-	<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

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Test Item(s)		Result(s)			Limit (mg/kg)	MDL (mg/kg)
		8				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	biphenyl-4-ylamine 4- aminobiphenyl xenylamine CAS No.:92-67-1	N.D.	N.D.	N.D.	0.002	0.002
2	Benzidine CAS No.:92-87-5	N.D.	N.D.	N.D.	0.002	0.002
3	4-chloro-o-toluidine CAS No.:95-69-2	N.D.	N.D.	N.D.	0.002	0.002
4	2-Naphthylamine CAS No.:91-59-8	N.D.	N.D.	N.D.	0.002	0.002
5	o-aminoazotoluene 4- amino-2',3- dimethylazobenzene 4-o-tolylazo-o-toluidine CAS No.:97-56-3	N.D.	N.D.	N.D.	0.002	0.002
6	5-nitro-o-toluidine CAS No.:99-55-8	N.D.	N.D.	N.D.	0.002	0.002
7	4-Chloroaniline CAS No.:106-47-8	N.D.	N.D.	N.D.	0.002	0.002
8	4-methoxy-m- phenylenediamine CAS No.:615-05-4	N.D.	N.D.	N.D.	0.002	0.002
9	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane CAS No.:101-77-9	N.D.	N.D.	N.D.	0.002	0.002
10	3,3'-dichlorobenzidine 3,3'- dichlorobiphenyl-4,4'- ylenediamine CAS No.:91-94-1	N.D.	N.D.	N.D.	0.002	0.002
11	3,3'-dimethoxybenzidine o- dianisidine CAS No.:119-90-4	N.D.	N.D.	N.D.	0.002	0.002
12	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS No.:119-93-7	N.D.	N.D.	N.D.	0.002	0.002
13	4,4'-methylenedi-o-toluidine CAS No.:838-88-0	N.D.	N.D.	N.D.	0.002	0.002
14	6-methoxy-m-toluidine p- cresidine CAS No.:120-71-8	N.D.	N.D.	N.D.	0.002	0.002
15	4,4'-methylene-bis-(2-chloro- aniline) 2,2'-dichloro-4,4'-methylene- dianiline CAS No.:101-14-4	N.D.	N.D.	N.D.	0.002	0.002
16	4,4'-oxydianiline CAS No.:101-80-4	N.D.	N.D.	N.D.	0.002	0.002
17	4,4'-thiodianiline CAS No.:139-65-1	N.D.	N.D.	N.D.	0.002	0.002

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18	o-toluidine 2-aminotoluene CAS No.:95-53-4	N.D.	N.D.	N.D.	0.002	0.002
19	4-methyl-m-phenylenediamine CAS No.:95-80-7	N.D.	N.D.	N.D.	0.002	0.002
20	2,4,5-trimethylaniline CAS No.:137-17-7	N.D.	N.D.	N.D.	0.002	0.002
21	o-anisidine 2-methoxyaniline CAS No.:90-04-0	N.D.	N.D.	N.D.	0.002	0.002
22	4-amino azobenzene CAS No.:60-09-3	N.D.	N.D.	N.D.	0.002	0.002
23	m-Phenylenediamine (m- PDA) CAS No.:108-45-2	N.D.	N.D.	N.D.	0.002	0.002
24	1,5- Diaminenaphthalene CAS No.:2243-62-01	N.D.	N.D.	N.D.	-	0.002
25	Aniline (ANL) CAS No.:62-53-3	N.D.	N.D.	N.D.	-	0.002
26	2,4-Dimethylaniline (2,4-DMA) CAS No.:95-68-1	N.D.	N.D.	N.D.	-	0.002
27	2,6-Dimethylaniline (2,6-DMA) CAS No.:87-62-7	N.D.	N.D.	N.D.	-	0.002
28	m-Phenylenediamine (m- PDA) CAS No.:108-45-2	N.D.	N.D.	N.D.	-	0.002
29	p-Phenylenediamine (p-PDA) CAS No.:106-50-3	N.D.	N.D.	N.D.	-	0.002
30	2,6-Toluenediamine (2,6- TDA) CAS No.:823-40-5	N.D.	N.D.	N.D.	-	0.002
-	Sum of 24~30	N.D.	N.D.	N.D.	0.01	-
-	<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

Test condition: 3%Acetic acid, 40℃ , 10d

Test Item(s)		Result(s)			Limit (mg/kg)	MDL (mg/kg)
		7				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	biphenyl-4-ylamine 4- aminobiphenyl xenylamine CAS No.:92-67-1	N.D.	N.D.	N.D.	0.002	0.002
2	Benzidine CAS No.:92-87-5	N.D.	N.D.	N.D.	0.002	0.002
3	4-chloro-o-toluidine CAS No.:95-69-2	N.D.	N.D.	N.D.	0.002	0.002
4	2-Naphthylamine CAS No.:91-59-8	N.D.	N.D.	N.D.	0.002	0.002



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5	o-aminoazotoluene 4-amino-2',3-dimethylazobenzene 4-o-tolylazo-o-toluidine CAS No.:97-56-3	N.D.	N.D.	N.D.	0.002	0.002
6	5-nitro-o-toluidine CAS No.:99-55-8	N.D.	N.D.	N.D.	0.002	0.002
7	4-Chloroaniline CAS No.:106-47-8	N.D.	N.D.	N.D.	0.002	0.002
8	4-methoxy-m-phenylenediamine CAS No.:615-05-4	N.D.	N.D.	N.D.	0.002	0.002
9	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane CAS No.:101-77-9	N.D.	N.D.	N.D.	0.002	0.002
10	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine CAS No.:91-94-1	N.D.	N.D.	N.D.	0.002	0.002
11	3,3'-dimethoxybenzidine o-dianisidine CAS No.:119-90-4	N.D.	N.D.	N.D.	0.002	0.002
12	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS No.:119-93-7	N.D.	N.D.	N.D.	0.002	0.002
13	4,4'-methylenedi-o-toluidine CAS No.:838-88-0	N.D.	N.D.	N.D.	0.002	0.002
14	6-methoxy-m-toluidine p- cresidine CAS No.:120-71-8	N.D.	N.D.	N.D.	0.002	0.002
15	4,4'-methylene-bis-(2-chloro- aniline) 2,2'-dichloro-4,4'-methylene- dianiline CAS No.:101-14-4	N.D.	N.D.	N.D.	0.002	0.002
16	4,4'-oxydianiline CAS No.:101-80-4	N.D.	N.D.	N.D.	0.002	0.002
17	4,4'-thiodianiline CAS No.:139-65-1	N.D.	N.D.	N.D.	0.002	0.002
18	o-toluidine 2-aminotoluene CAS No.:95-53-4	N.D.	N.D.	N.D.	0.002	0.002
19	4-methyl-m-phenylenediamine CAS No.:95-80-7	N.D.	N.D.	N.D.	0.002	0.002
20	2,4,5-trimethylaniline CAS No.:137-17-7	N.D.	N.D.	N.D.	0.002	0.002
21	o-anisidine 2-methoxyaniline CAS No.:90-04-0	N.D.	N.D.	N.D.	0.002	0.002
22	4-amino azobenzene CAS No.:60-09-3	N.D.	N.D.	N.D.	0.002	0.002
23	m-Phenylenediamine (m- PDA) CAS No.:108-45-2	N.D.	N.D.	N.D.	0.002	0.002



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24	1,5- Diaminenaphthalene CAS No.:2243-62-01	N.D.	N.D.	N.D.	-	0.002
25	Aniline (ANL) CAS No.:62-53-3	N.D.	N.D.	N.D.	-	0.002
26	2,4-Dimethylaniline (2,4-DMA) CAS No.:95-68-1	N.D.	N.D.	N.D.	-	0.002
27	2,6-Dimethylaniline (2,6-DMA) CAS No.:87-62-7	N.D.	N.D.	N.D.	-	0.002
28	m-Phenylenediamine (m- PDA) CAS No.:108-45-2	N.D.	N.D.	N.D.	-	0.002
29	p-Phenylenediamine (p-PDA) CAS No.:106-50-3	N.D.	N.D.	N.D.	-	0.002
30	2,6-Toluenediamine (2,6- TDA) CAS No.:823-40-5	N.D.	N.D.	N.D.	-	0.002
-	Sum of 24~30	N.D.	N.D.	N.D.	0.01	-
-	<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

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

## 8. Bisphenol A Contents In-house Method, determined by LC-MS/MS

Test Item		Result			Limit (mg/kg)	MDL (mg/kg)
		2	7	8		
1	Bisphenol A	N.D.	N.D.	N.D.	Prohibit	0.001
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

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Regulation (EC) No 1935/2004 ,the Commission Regulation (EU) 2024/3190 and Council of Europe Resolution AP (2004) 5- For Silicone Material

## 9. Overall Migration EN 1186-1:2002 & EN 1186-3:2022

Test Item		Result		Limit (mg/dm <sup>2</sup> )	MDL (mg/dm <sup>2</sup> )
		5 <sup>-3rd</sup>	6 <sup>-3rd</sup>		
1	3% Acetic acid, 70℃, 2h	N.D.	N.D.	10	3
2	50% Ethanol,70℃, 2h	N.D.	N.D.	10	3
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

## 10. Bisphenol A Contents In-house Method, determined by LC-MS/MS

Test Item		Result		Limit (mg/kg)	MDL (mg/kg)
		5	6		
1	Bisphenol A	N.D.	N.D.	Prohibit	0.001
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

## 11. Specific migration of Bisphenol A DD CEN/TS 13130-13:2005, determined by LC-MS-MS

Test Condition: 3% Acetic acid, 70℃, 2h

Test Item		Result		Limit (mg/kg)	MDL (mg/kg)
		5 <sup>-3rd</sup>	6 <sup>-3rd</sup>		
1	Bisphenol A (BPA)	N.D.	N.D.	Prohibit	0.01
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

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French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material

## 12. Overall Migration for Silicone Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2022

Test Item(s)		Result		Limit (mg/dm <sup>2</sup> )	MDL (mg/dm <sup>2</sup> )
		5 <sup>-3rd</sup>	6 <sup>-3rd</sup>		
1	3% Acetic acid, 70°C, 2h	N.D.	N.D.	10	3
2	50% Ethanol, 70°C, 2h	N.D.	N.D.	10	3
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

## 13. Specific migration of Bisphenol A DD CEN/TS 13130-13:2005, determined by LC-MS-MS

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

Test Item(s)		Result		Limit (mg/kg)	MDL (mg/kg)
		5 <sup>-3rd</sup>	6 <sup>-3rd</sup>		
1	Bisphenol A (BPA)	N.D.	N.D.	ND	0.01
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

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

Test Item(s)		Result		Client's Limit (mg/kg)	MDL (mg/kg)
		5	6		
1	Bisphenol A	N.D.	N.D.	Not Detected	0.001
-	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

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## 15. Specific migration of Organotin(as Tin) EN 13130-1:2004, determined by ICP-OES

Test condition: 3% Acetic acid, 70℃, 2h

Test Item(s)		Result		Limit (mg/kg)	MDL (mg/kg)
		5 <sup>-3rd</sup>	6 <sup>-3rd</sup>		
1	Organotin(as Sn)	N.D.	N.D.	0.1	0.01
-	Conclusion	PASS	PASS	-	-

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

## 16. Peroxide Value Europe pharmacopoeia,9.0 chapter 2.5.5.

Test Item(s)		Result		Requirement
		5	6	
1	Peroxide Value	Negative	Negative	Negative
-	Conclusion	PASS	PASS	-

## 17. Volatile organic matter French Arrêté du Novembre 1992 Annex III.

Test condition: 200℃, 4h

Test Item(s)		Result		Limit (%)	MDL (%)
		5	6		
1	Volatile Compounds	0.20	0.13	0.5	0.1
-	Conclusion	PASS	PASS	-	-

Remark(s): (a) MDL: Method detected limit

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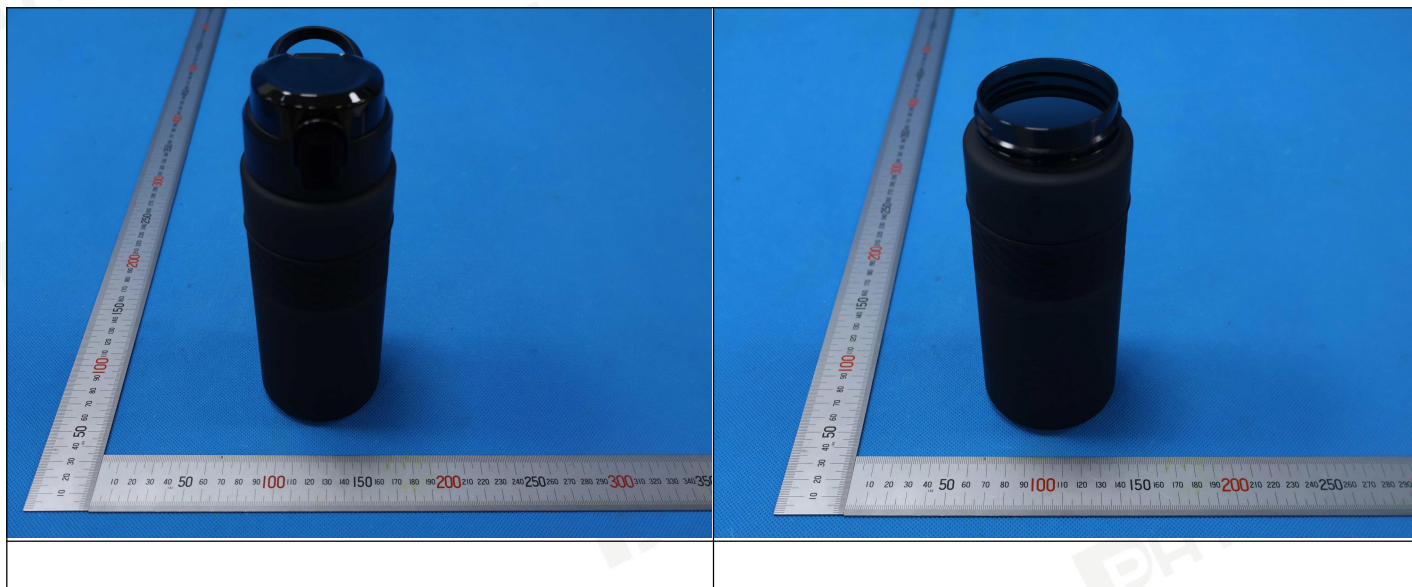
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## Material List:

Material #	Sample Description / Position	Client's Material Statement
1	Transparent black plastic,lid	-
2	Matt-black plastic,lid	PP
3	Black plastic,lid buckle	-
4	Translucent silicone,ring holder	-
5	Translucent silicone,straw	Silicone
6	Translucent silicone,seal ring	Silicone
7	Transparent black plastic,bottle	RPET
8	Translucent plastic,straw	PP
9	Black soft plastic,cup sleeve	-
10	Silvery metal,spring	-
11	Silvery metal,axle	-

## Photo(s):





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Test Sample Photo



Product Photo, For reference only

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# 声明

## Statement

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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.
8. 本检测报告的检测结果仅对送测样品负责,未加盖资质认定标志的检测报告不对社会具有公证证明作用,对于检测数据、结果的使用,所产生的直接或间接损失及一切法律后果,本实验室不承担任何经济和法律责任。

This test data is only responsible for the tested sample. The data and results provided by the report without CMA accreditation are not to prove to the society, and DPHTL is not responsible for any economic and legal responsibility for the use of the test data, the direct or indirect losses resulting from the use of the test and all legal consequences.
9. 如果本公司确定报告被不当使用,本公司保留撤回报告的权利,并有权要求其它适当的额外赔偿。

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.
10. 除非相关政府部门、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。

The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
11. 若需要在法院审理程序或者仲裁过程中使用测试报告,客户必须在提交测试样品前将该意图告知本公司。

Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
12. 该测试报告的支持数据和信息本公司保存6年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。

Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of 6 years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.