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Mid Ocean Brands B.V. Applicant:

Unit 711-716, 7/F., Tower A, 83 King Lam Street Address:

Cheung Sha Wan, Kowloon, Hong Kong

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

Sports water bottle Sample Name:

MO2672 Model:

Vendor code: 107978

May 20,2025 **Receiving Date:**

From May 20,2025 to Jun 27,2025 **Test Period:**

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
5	Azo colorants content - Item 43 of Annex XVII of the REACH Regulation (EC) No 1907/2006 & amendment (EC) No 552/2009 and (EU) No 126/2013	PASS
6	Colour Fastness to Rubbing-Client's requirement	PASS





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#	Test Item(s)	Conclusion
	ulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment)2023/1442 and (EU) 2024/3190 - For Plastic Material	(9)H
7	Overall migration	PASS
8	Specific migration of Heavy Metal	PASS
9	Specific migration of Primary Aromatic Amine	PASS
10	Bisphenol A (BPA) content	PASS
	ulation (EC) No 1935/2004,the Commission Regulation (EU) 2024/3190 and Council of Europe (2004) 5- For Silicone Material	Resolution
11	Overall migration	PASS
12	Bisphenol A Contents	PASS
13	Specific migration of Bisphenol A (BPA)	PASS
Frei	nch Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone	Material
14	Overall migration	PASS
15	Specific migration of Bisphenol A (BPA)	PASS
16	Bisphenol A Contents	PASS
17	Specific migration of Organotin (as Tin)	PASS
18	Peroxide Value	PASS
19	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)		C	Limit (mg/kg)	MDL (mg/kg)			
			3	5	6	7	, , ,	, , ,
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	-	-

			Res				
	Test item(s)		Catego	Limit (mg/kg)	MDL (mg/kg)		
		8	10	11	12		
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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-	Conclusion	PASS	PASS	PASS	PASS	-	-
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	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.	1	0.2

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

Toot itom(s)				Limit	MDL			
	Test item(s)		3	5	6	7	(mg/kg)	(mg/kg)
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	N.D.	100	10
-	Conclusion	PASS	PASS	PASS	PASS	PASS	-	-

Test item(s)		Res	Limit	MDL		
	rest item(s)	8	10	(mg/kg)	(mg/kg)	
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	10	
-	Conclusion	PASS	PASS	-	-	

Test item(s)		Res	Limit	MDL		
	rest item(s)	11	12	(mg/kg)	(mg/kg)	
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	1000	10	
-	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)



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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

	Tost itom(s)					Limit	MDL		
		Test item(s)	2	3	5	6	7	(%)	(%)
1	DBP	Dibutyl Phthalate CAS# 84-74-2	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.	0.1	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	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.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	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.	-	0.010
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	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.	0.1	-
-	- Sum of 5, 6 & 7		N.D.	N.D.	N.D.	N.D.	N.D.	0.1	-
- Conclusion			PASS	PASS	PASS	PASS	PASS	-	-

		Toot item/o		Res	Limit	MDL		
		Test item(s)	8	10	11	12	(%)	(%)
1	DBP	Dibutyl Phthalate CAS# 84-74-2	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.	0.1	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	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.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	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.	-	0.010
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	-	0.010
-	Sum of	1, 2, 3 & 4	N.D.	N.D.	N.D.	N.D.	0.1	-
- Sum of 5, 6 & 7		N.D.	N.D.	N.D.	N.D.	0.1	-	



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- Conclusion PASS PASS PASS

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

(b) N.D.: Not detected (result is less than MDL)

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

	Toot itom(a)	Result							MDL
Test item(s)		1	2	3	4	5	6	(mg/kg)	(mg/kg)
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500	10
-	Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	-	-

Took its mote)		Result					Limit	MDL	
	Test item(s)	7	8	9	10	11	12	(mg/kg)	(mg/kg)
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500	10
-	Conclusion	PASS	PASS	PASS	PASS	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)

Azo colourants content - Item 43 of Annex XVII of REACH Regulation (EC) No 1907/2006 & amendment EC No 552/2009 and (EU) No 126/2013

ISO 14362-1:2017& ISO 14362-3:2017, determined by GC-MS and HPLC

	Test Item(s)	Results 1	Limit (mg/kg)	MDL (mg/kg)
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	30	5
3	4-chloro-o-toluidine CAS#95-69-2	N.D.	30	5
4	2-Naphthylamine CAS#91-59-8	N.D.	30	5
5	o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3- dimethylazobenzene* CAS#97-56-3	N.D.	30	5



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S-nitro-o-toluidine/2-amino-4- N.D. 30 5					
CAS#106-47-8 A-methoxy-m-phenylenediamine/ S. 2,4-diaminoanisole N.D. 30 5	6	nitrotoluol*	N.D.	30	5
8 2,4-diaminoanisole CA\$615-05-4 N.D. 30 5 4,4*-methylenedianiline/ 9 4,4*-diaminodiphenylmethane CA\$6101-77-9 N.D. 30 5 3,3*-dichlorobepinenyl-4,4*- ylenediamine CA\$6101-77-9 ylenediamine CA\$6101-77-9 N.D. 30 5 CA\$619-94-1 N.D. 30 5 2,3*-dimethoxybenzidine/o-dianisidine CA\$6119-90-4 N.D. 30 5 2,3*-dimethylbenzidine/4,4*-bi-o-toluidine CA\$6119-93-7 N.D. 30 5 12 toluidine CA\$6119-93-7 N.D. 30 5 2,4*-methylenedi-o-toluidine CA\$6119-93-7 N.D. 30 5 14 6-methoxy-m-toluidine/p-cresidine CA\$6120-1-8 N.D. 30 5 4,4*-methylene-bis-(2-chloro-aniline)/ 2,2*-dichloro-4,4*-methylene-dianiline CA\$611-14-4 N.D. 30 5 15 2,2*-dichloro-4,4*-methylene-dianiline CA\$611-18-0 N.D. 30 5 16 4,4*-thiodianiline CA\$611-18-0 N.D. 30 5 17 2,4*-thiodianiline CA\$613-18-0 N.D. 30 5 18	7	CAS#106-47-8	N.D.	30	5
9 4,4'-diamínodiphenylmethane (3,3'-dichlorobenzidine/ 3,3'-dichlorobenzidine/ 4,4'-methoxybenzidine/o-dianisidine (CA\$#91-94-1 N.D. 30 5 11 3,3'-dimethoxybenzidine/o-dianisidine (CA\$#91-94-1 N.D. 30 5 2,3'-dimethylbenzidine/4,4'-bi-o- toluidine (CA\$#119-90-4 N.D. 30 5 12 toluidine (CA\$#119-93-7 N.D. 30 5 13 4,4'-methylenedi-o-toluidine (CA\$#10-93-88-0-0 N.D. 30 5 14 6-methoxy-m-toluidine/p-cresidine (CA\$#10-14-4 N.D. 30 5 2,2'-dichloro-4,4'-methylene-dianiline (CA\$#10-18-04 N.D. 30 5 4,4'-methylene-bis-(2-chloro-anilline)/ (2,2'-dichloro-4,4'-methylene-dianiline (CA\$#10-18-04 N.D. 30 5 2,2'-dichloro-4,4'-methylene-dianiline (CA\$#10-18-04 N.D. 30 5 4,4'-thiodianiline (CA\$#10-80-4 N.D. 30 5 17 4,4'-thiodianiline (CA\$#10-80-4 N.D. 30 5 18 0-toluidine/2-aminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine (CA\$#95-80-7 N.D. 30 5 20	8	2,4-diaminoanisole CAS#615-05-4	N.D.	30	5
10	9	4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	30	5
CAS#119-90-4	10	3,3'-dichlorobiphenyl-4,4'- ylenediamine	N.D.	30	5
12 toluidine	11	CAS#119-90-4	N.D.	30	5
13 CAS#838-86-0 N.D. 30 5	12	toluidine	N.D.	30	5
14 CAS#120-71-8	13		N.D.	30	5
15 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4 N.D. 30 5 16 4,4'-oxydianiline CAS#101-80-4 N.D. 30 5 17 4,4'-thiodianiline CAS#139-65-1 N.D. 30 5 18 o-toluidine/2-aminotoluen CAS#95-53-4 N.D. 30 5 2,4-diaminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7 N.D. 30 5 20 2,4,5-trimethylaniline CAS#137-17-7 N.D. 30 5 21 0-anisidine/2-methoxyaniline CAS#90-04-0 N.D. 30 5 22 4-aminoazobenzene** CAS#60-09-3 N.D. 30 5	14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	30	5
10 CAS#101-80-4 N.D. 30 5 17 4,4'-thiodianiline CAS#139-65-1 N.D. 30 5 18 O-toluidine/2-aminotoluen CAS#95-53-4 N.D. 30 5 2,4-diaminotoluene/2,4-toluylendiamine/methyl-m-phenylenediamine CAS#95-80-7 N.D. 30 5 20 2,4,5-trimethylaniline CAS#37-17-7 N.D. 30 5 21 O-anisidine/2-methoxyaniline CAS#90-04-0 N.D. 30 5 22 4-aminoazobenzene** CAS#60-09-3 N.D. 30 5	15	2,2'-dichloro-4,4'-methylene-dianiline	N.D.	30	5
17 CAS#139-65-1 N.D. 30 5 18 O-toluidine/2-aminotoluen CAS#95-53-4 N.D. 30 5 2,4-diaminotoluene/2,4-toluylendiamine/methyl-m-phenylenediamine CAS#95-80-7 N.D. 30 5 20 2,4,5-trimethylaniline CAS#137-17-7 N.D. 30 5 21 0-anisidine/2-methoxyaniline CAS#90-04-0 N.D. 30 5 22 4-aminoazobenzene** CAS#60-09-3 N.D. 30 5	16	4,4'-oxydianiline CAS#101-80-4	N.D.	30	5
18 CAS#95-53-4 N.D. 30 5 2,4-diaminotoluene/2,4-toluylendiamine/methyl-m-phenylenediamine N.D. 30 5 20 2,4,5-trimethylaniline CAS#95-80-7 N.D. 30 5 21 0-anisidine/2-methoxyaniline CAS#90-04-0 N.D. 30 5 22 4-aminoazobenzene** CAS#60-09-3 N.D. 30 5	17		N.D.	30	5
19 toluylendiamine/methyl-m-phenylenediamine CAS#95-80-7 N.D. 30 5 20 2,4,5-trimethylaniline CAS#137-17-7 N.D. 30 5 21 o-anisidine/2-methoxyaniline CAS#90-04-0 N.D. 30 5 22 4-aminoazobenzene** CAS#60-09-3 N.D. 30 5	18	CAS#95-53-4	N.D.	30	5
20 CAS#137-17-7 N.D. 30 5 21 o-anisidine/2-methoxyaniline CAS#90-04-0 N.D. 30 5 22 4-aminoazobenzene** N.D. 30 5	19	toluylendiamine/ methyl-m-phenylenediamine	N.D.	30	5
21 CAS#90-04-0 N.D. 30 3 22 4-aminoazobenzene** N.D. 30 5	20	2,4,5-trimethylaniline	N.D.	30	5
22 CAS#60-09-3 N.D. 30 5	21	CAS#90-04-0	N.D.	30	5
- Conclusion PASS	22		N.D.	30	5
	-	Conclusion	PASS	-	-

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

⁽b) N.D.: Not detected (result is less than MDL)

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

*: The amines o-aminoazotoluene (No 5, CAS No.97-56-3) and 2-amino-4-nitrotoluene (No 6, CAS No.99-55-8) are further reduced to o-toluidine (No 18, CAS No. 95-53-4) and 2, 4-diaminotoluene (No 19, CAS No. 95-80-7).

**: Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylendiamine (CAS No. 106-50-3).Due to detection limits, only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017.



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Colour Fastness to Rubbing

PASS

ISO 105-X12:2016, (Minimum requirement(Grade): Dry≥2-3, Wet≥2-3)

Comple	Result	(Grade)
Sample	Dry	Wet
1	4-5	4-5

Grey Scale Rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good. Remark(s):

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

Overall migration EN 1186-1:2002 & EN 1186-3:2022

Test Item(s)			Result	Limit (mg/dm²)		
			5		MDL (mg/dm²)	
		1 st	2 nd	3 rd		
1	3%acetic acid ,70°C , 2h	N.D.	N.D.	N.D.	10	3
2	50%Ethanol,70℃ , 2h	N.D.	N.D.	N.D.	10	3
-	Conclusion	-	-	PASS	-	-

	Test Item(s)		Result	Limit (mg/dm²)		
			10		MDL (mg/dm²)	
		1 st	2 nd	3 rd		, , ,
1	3%acetic acid ,40℃ , 240h	N.D.	N.D.	N.D.	10	3
2	50%Ethanol,40℃ , 240h	N.D.	N.D.	N.D.	10	3
-	Conclusion	-	-	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre (b) MDL: Method detected limit

(c) N.D.: Not detected (result is less than MDL)



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

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

			Result(s)			MDI	
	Test Item(s)		5		Limit (mg/kg)	MDL (mg/kg)	
		1 st	2 nd	3 rd			
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	
7	Calcium(Ca)	0.6	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.	71-1	0.1	



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-	Conclusion	-	-	PASS	-	-
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
22	Sodium(Na)	N.D.	N.D.	N.D.	-	0.1

Test condition: 3%Acetic acid, 40℃, 240h

			Result(s)				
	Test Item(s)		10		Limit (mg/kg)	MDL (mg/kg)	
		1 st	2 nd	3 rd			
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	
7	Calcium(Ca)	N.D.	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	



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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
-	Conclusion	-	-	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram

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

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

			Result(s)			
	Test Item(s)		5			MDL (mg/kg)
		1 st	2 nd	3 rd		
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

⁽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



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9	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane	N.D.	N.D.	N.D.	0.002	0.002
10	CAS No.:101-77-9 3,3'-dichlorobenzidine 3,3'- dichlorobiphenyl-4,4'- ylenediamine	N.D.	N.D.	N.D.	0.002	0.002
	CAS No.:91-94-1 3,3'-dimethoxybenzidine o-					
11	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
	4,4'-methylenedi-o-toluidine					
13	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	N.D.	N.D.	N.D.	0.002	0.002
19	CAS No.:95-53-4 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	N.D.	N.D.	N.D.	<u> </u>	0.002
25	CAS No.:2243-62-01 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.	14-17	0.002



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-	Conclusion	-	-	PASS	-	-
-	Sum of 24~30	N.D.	N.D.	N.D.	0.01	-
30	2,6-Toluenediamine (2,6- TDA) CAS No.:823-40-5	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
28	m-Phenylenediamine (m- PDA) CAS No.:108-45-2	N.D.	N.D.	N.D.	-	0.002

Test condition: 3%Acetic acid, 40℃, 240h

Test Item(s)		Result(s)				MDL (mg/kg)
			10			
			2 nd	3 rd	(mg/kg)	
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

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13	4,4'-methylenedi-o-toluidine	N.D.	N.D.	N.D.	0.002	0.002
	CAS No.:838-88-0					
14	6-methoxy-m-toluidine p- cresidine	N.D.	N.D.	N.D.	0.002	0.002
14	CAS No.:120-71-8	IN.D.	N.D.	IN.D.	0.002	0.002
	4,4'-methylene-bis-(2-chloro- aniline)	4				
15	2,2'-dichloro-4,4'-methylene- dianiline	N.D.	N.D.	N.D.	0.002	0.002
	CAS No.:101-14-4					
	4,4'-oxydianiline					
16		N.D.	N.D.	N.D.	0.002	0.002
	CAS No.:101-80-4					
17	4,4'-thiodianiline	N.D.	N.D.	N.D.	0.002	0.002
	CAS No.:139-65-1				0.002	0.002
	o-toluidine					
18	2-aminotoluene	N.D.	N.D.	N.D.	0.002	0.002
	CAS No.:95-53-4	7			1	
19	4-methyl-m-phenylenediamine	N.D.	N.D.	N.D.	0.002	0.002
19	CAS No.:95-80-7	IN.D.	N.D.	N.D.	0.002	0.002
	2,4,5-trimethylaniline					
20		N.D.	N.D.	N.D.	0.002	0.002
	CAS No.:137-17-7 o-anisidine					
21	2-methoxyaniline	N.D.	N.D.	N.D.	0.002	0.002
21	•	IN.D.	IN.D.	IN.D.	0.002	0.002
	CAS No.:90-04-0					
22	4-amino azobenzene	N.D.	N.D.	N.D.	0.002	0.002
	CAS No.:60-09-3					
23	m-Phenylenediamine (m- PDA)	N.D.	N.D.	N.D.	0.002	0.002
	CAS No.:108-45-2	14.5.	IV.D.	14.5.	0.002	0.002
	1,5- Diaminenaphthalene					0.000
24	,	N.D.	N.D.	N.D.	-	0.002
	CAS No.:2243-62-01					-
25	Aniline (ANL)	N.D.	N.D.	N.D.	_	0.002
	CAS No.:62-53-3					
26	2,4-Dimethylaniline (2,4-DMA)	N.D.	N.D.	N.D.		0.002
20	CAS No.:95-68-1	IN.D.	N.D.	N.D.	_	0.002
	2,6-Dimethylaniline (2,6-DMA)		=	A		
27		N.D.	N.D.	N.D.	-	0.002
	CAS No.:87-62-7 m-Phenylenediamine (m- PDA)					
28	CAS No.:108-45-2	N.D.	N.D.	N.D.	-	0.002
	p-Phenylenediamine (p-PDA)					
29	CAS No.:106-50-3	N.D.	N.D.	N.D.	-	0.002
	2,6-Toluenediamine (2,6-TDA)			197		
30		N.D.	N.D.	N.D.	-	0.002
	CAS No.:823-40-5			1874		
-	Sum of 24~30	N.D.	N.D.	N.D.	0.01	-
	0			DACC		
-	Conclusion	-	-	PASS	-	-

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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10. Bisphenol A Contents

In-house Method, determined by LC-MS/MS

Test Item		Res	Limit	MDL	
	Test Item	5	10	(mg/kg)	(mg/kg)
1	Bisphenol A	N.D.	N.D.	Prohibit	0.001
-	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)

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

Overall Migration

EN 1186-1:2002 & EN 1186-3:2022

	Test Item	Result 7 ^{-3rd}	Limit (mg/dm²)	MDL (mg/dm²)
1	3% Acetic acid, 70℃, 2h	N.D.	10	3
2	50% Ethanol, 70℃, 2h	N.D.	10	3
-	Conclusion	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre (b) MDL: Method detected limit (c) N.D.: Not detected (result is less than MDL)

12. Bisphenol A Contents

In-house Method, determined by LC-MS/MS

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

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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13. Specific migration of Bisphenol A

DD CEN/TS 13130-13:2005, determined by LC-MS-MS

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

		Result	Limit	MDL
	Test Item	7 -3rd	(mg/kg)	(mg/kg)
1	Bisphenol A (BPA)	N.D.	Prohibit	0.01
-	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram

(b) MDL: Method detected limit

(c) N.D.: Not detected (result is less than MDL)

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

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

	Test Item(s)	Result 7 ^{-3rd}	Limit (mg/dm²)	MDL (mg/dm²)
1	50%Ethanol, 70℃ , 2h	N.D.	10	3
2	3%acetic acid , 70℃ , 2h	N.D.	10	3
-	Conclusion	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre (b) MDL: Method detected limit

(c) N.D.: Not detected (result is less than MDL)

Specific migration of Bisphenol A

DD CEN/TS 13130-13:2005, determined by LC-MS-MS

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

		Result	Limit	MDL
Test Item(s)		7 ^{-3rd}	(mg/kg)	(mg/kg)
1	Bisphenol A (BPA)	N.D.	Prohibit	0.01
-	Conclusion	PASS	-	-

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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16. Bisphenol A (BPA) content

In-house Method, determined by LC-MS-MS

Test Item(s)		Result	Client's Limit	MDL
	rest itelli(s)	7	(mg/kg)	(mg/kg)
1	Bisphenol A	N.D.	Prohibit	0.001
-	Conclusion	PASS	-	-

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

(b) N.D.: Not detected (result is less than MDL)

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 7-3rd	Limit (mg/kg)	MDL (mg/kg)
1	Organotin(as Sn)	N.D.	0.1	0.01
-	Conclusion	PASS	-	-

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

18. **Peroxide Value**

Europe pharmacopoeia, 9.0 chapter 2.5.5.

	To ad Manada)	Result	Do audino mont	
	Test Item(s)	7	Requirement	
1	Peroxide Value	Negative	Negative	
-	Conclusion	PASS	-	



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19. Volatile organic matter

French Arrêté du Novembre 1992 Annex III.

Test condition: 200℃, 4h

Toot Itom(o)		Result	Limit	MDL
	Test Item(s)	7	(%)	(%)
1	Volatile Compounds	0.13	0.5	0.1
-	Conclusion	PASS	-	-

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

Material List:

Material #	Sample Description / Position	Client's Material Statement
1	Black fabric,belt	-
2	Bright black plastic,ring	-
3	Transparent black plastic,lid	-
4	Silvery metal,spring	-17
5	Black plastic,lid	PP
6	Black soft plastic,lid	-
7	Translucent silicone,seal ring	Silicone
8	Transparent plastic,switch	-
9	Silvery metal,shaft	-
10	Translucent black plastic,bottle	RPET
11	Transparent coating,bottle	-
12	Black coating,bottle	-



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Photo(s):





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- 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 ②)、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.