TEST REPORT

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: tumbler with strap

Model: MO2670

Vendor code : 107978

Receiving Date: Jun 5,2025

Test Period: From Jun 5,2025 to Jun 11,2025

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**
5	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)-BS EN 12875-1:2005	**PASS**
6	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**
7	Colour Fastness to Rubbing-Client's requirement	**PASS**
8	Microwave safe test-BS EN 15284:2007	**PASS**

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

Authorized Signatory

Mark Mai
(Technical Director)

广州市德普华检测技术有限公司 GUANGZHOU DEPUHUA TEST SERVICES CO.,LTD. 检验检测专用章 Inspection & Testing Services

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

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 *1						
		1	2	3	4	6		
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**	-	-

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	6		
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**	-	-

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

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	6		
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**	-	-

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	6	7		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500	10
-	**Conclusion**	**PASS**	**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)

5. Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)

BS EN 12875-1:2005

	Sample	8A	8B	8C
After 10 cycles	Color[1)]	0	0	0
	Gloss	0	0	0
	Clouding	0	0	0
	Resistant deposits and iridescent layers [2)]	0	0	0
	Other aspects	0	0	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 safety 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)

6. 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			Limit (mg/kg)	MDL (mg/kg)
		5	6	7		
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	N.D.	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	N.D.	N.D.	30	5
3	4-chloro-o-toluidine CAS#95-69-2	N.D.	N.D.	N.D.	30	5
4	2-Naphthylamine CAS#91-59-8	N.D.	N.D.	N.D.	30	5
5	o-aminoazotoluene/4-o-tolyazao-o-toluidine /4-amino-2',3-dimethylazobenzene* CAS#97-56-3	N.D.	N.D.	N.D.	30	5
6	5-nitro-o-toluidine/2-amino-4-nitrotoluol* CAS#99-55-8	N.D.	N.D.	N.D.	30	5
7	4-chloroaniline CAS#106-47-8	N.D.	N.D.	N.D.	30	5
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	N.D.	N.D.	30	5
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	N.D.	N.D.	30	5
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine CAS#91-94-1	N.D.	N.D.	N.D.	30	5
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	N.D.	N.D.	30	5
12	3,3'-dimethylbenzidine/4,4'-bi-o-toluidine CAS#119-93-7	N.D.	N.D.	N.D.	30	5
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	N.D.	N.D.	30	5
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	N.D.	N.D.	30	5
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	N.D.	N.D.	30	5
16	4,4'-oxydianiline CAS#101-80-4	N.D.	N.D.	N.D.	30	5
17	4,4'-thiodianiline CAS#139-65-1	N.D.	N.D.	N.D.	30	5
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	N.D.	N.D.	30	5

19	2,4-diaminotoluene/2,4-toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	N.D.	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	N.D.	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	N.D.	N.D.	30	5
22	4-aminoazobenzene** CAS#60-09-3	N.D.	N.D.	N.D.	30	5
-	**Conclusion**	**PASS**	**PASS**	**PASS**	-	-

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

7. Colour Fastness to Rubbing PASS

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

Sample	Result (Grade)	
	Dry	Wet
5	4-5	4-5
6	4-5	4-5
7	4	4-5

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

8. Microwave safe test

BS EN 15284:2007

2.1 Test Standard:
BS EN 15284: 2007 Materials and articles in contact with food stuffs -Test method for the resistance to microwave heating of ceramic, glass, glass-ceramic or plastics cookware
2.2 No. of Specimen:

Test sample description:	Article
Number of Tested Sample(s):	3Pieces
Number of Controlled Sample(s):	1Pieces

2.3Test Procedure:
With reference to BS EN 15284: 2007 test method.
2.4. Test Requirement:
2.4.1 Visually inspect the test specimen for damage according to the criteria in Table 1.

Table 1——inspection criteria

Material	Cracking	Crazing	Scaling	Color	Melting	Deformation	Suitability for re-use	Charring
Ceramic	+	+[a]	+[b]	+[c]				
Glass, glass-ceramic	+		+[b]	+[c]				
Plastics	+			+[c]	+[d]	+	+[e]	+

(+)=to be inspected
[a] refers to the glaze
[b] refers to on-glaze decoration
[c] if several colors are present on one article to be inspected, the color with the greatest change shall be chosen
[d] article shall not be too soft to handle
[e] article shall be washable and stain resistant
NOTE 1 For the color criterion, an inspector and inspection site that meet the requirements of Clause 4 and 5.2 of EN 12875-2:2001 are required [2]
2.4.2 The maximum surface temperature of handles after the short period heating (6.6) shall not exceed the following limit values:
ceramic, glass-ceramic or glass: 56℃
plastics: 60 ℃
NOTE 1 These temperatures can be found by reference to a one minute contact time in EN ISO 13732-1 [1].
NOTE 2 As temperatures measured after the long period of heating vary significantly depending on the microwave oven used for testing, no temperature limit values apart from those for handles are given.
2.5.Test Result:
Pass
1) Visually inspect the test specimen: No visible change.
2) The highest surface temperature: 37℃ (after the short period)
42℃ (after the long period)

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

9. Overall migration

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

Test Item(s)		Result			Limit (mg/dm^2)	MDL (mg/dm^2)
		1				
		1st	2nd	3rd		
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**	-	-

Test Item(s)		Result			Limit (mg/dm^2)	MDL (mg/dm^2)
		2				
		1st	2nd	3rd		
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^2: milligram square decimetre
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

10. 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)
		1				
		1st	2nd	3rd		
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
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**	-	-

Test Item(s)		**Result(s)**			**Limit (mg/kg)**	**MDL (mg/kg)**
		2				
		1st	2nd	3rd		
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)	0.2	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
-	**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)
(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

11. Specific migration of Primary Aromatic Amine

EN 13130-1:2004, determined by LC-MS/MS

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

Test Item(s)		Result(s)			Limit (mg/kg)	MDL (mg/kg)
		1				
		1st	2nd	3rd		
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
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	-
-	**Conclusion**	-	-	**PASS**	-	-

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

12. Bisphenol A Contents

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

Test Item		Result		Limit (mg/kg)	MDL (mg/kg)
		1	2		
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

13. Overall Migration

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

Test Item		Result		Limit (mg/dm^2)	MDL (mg/dm^2)
		3-3rd	4-3rd		
1	3% Acetic acid, 70℃, 2h	N.D.	N.D.	10	3
2	50% Ethanol, 70℃, 2h	N.D.	N.D.	10	3
-	**Conclusion**	**PASS**	**PASS**	-	-

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

14. Bisphenol A Contents

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

Test Item		Result		Limit (mg/kg)	MDL (mg/kg)
		3	4		
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)

15. 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)
		3^{-3rd}	4^{-3rd}		
1	Bisphenol A (BPA)	N.D.	N.D.	Prohibit	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)

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

16. Overall Migration for Silicone Materials in Contact with Foodstuffs

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

Test Item(s)		Result		Limit (mg/dm^2)	MDL (mg/dm^2)
		3^{-3rd}	4^{-3rd}		
1	50%Ethanol, 70℃ , 2h	N.D.	N.D.	10	3
2	3%acetic acid , 70℃ , 2h	N.D.	N.D.	10	3
-	**Conclusion**	**PASS**	**PASS**	-	-

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

17. 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(s)		Result		Limit (mg/kg)	MDL (mg/kg)
		3-3rd	4-3rd		
1	Bisphenol A (BPA)	N.D.	N.D.	Prohibit	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)

18. Bisphenol A (BPA) content

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

Test Item(s)		Result		Client's Limit (mg/kg)	MDL (mg/kg)
		3	4		
1	Bisphenol A	N.D.	N.D.	Prohibit	0.001
-	**Conclusion**	**PASS**	**PASS**	-	-

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

19. 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)
		3-3rd	4-3rd		
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)

20. Peroxide Value

Europe pharmacopoeia,9.0 chapter 2.5.5.

Test Item(s)		Result		Requirement
		3	4	
1	Peroxide Value	Negative	Negative	Negative
-	**Conclusion**	**PASS**	**PASS**	-

21. Volatile organic matter

French Arrêté du Novembre 1992 Annex III.

Test condition: 200℃, 4h

Test Item(s)		Result		Limit (%)	MDL (%)
		3	4		
1	Volatile Compounds	0.19	0.25	0.5	0.1
-	**Conclusion**	**PASS**	**PASS**	-	-

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

Material List:

Material #	Sample Description / Position	Client's Material Statement
1	Translucent black plastic,cup	PP
2	Black plastic,lid	PP
3	Translucent silicone,seal ring	Silicone
4	Black silicone,stopper	Silicone
5	Black textile,belt	-
6	Black PU,belt	-
7	Black textile,cord	-

8	Article	-

Remark(s): The test material point is selected by client,the chemical test conclusions in the report only apply to the test material.

Photo(s):

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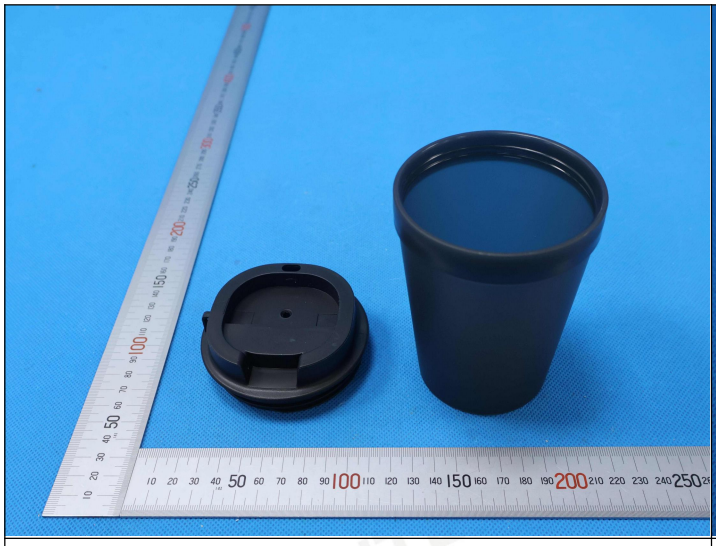
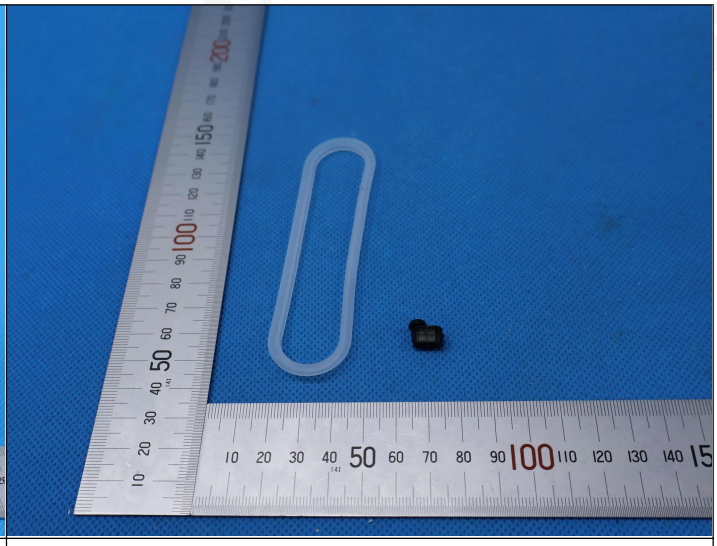
<tr><td>  </td><td>  </td></tr>
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</table>

	/
Product Photo，For reference only	

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