



# TEST REPORT

Report No.: STSGZ2304283037E

Date: 29-May-2023

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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:** 2 in 1 Double wall insulating vacuum bottle

**Model/Style/Item #:** MO6948

**Receiving Date:** 28-Apr-2023, 16-May-2023

**Test Period:** From 28-Apr-2023 to 24-May-2023

**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>
4	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>

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

Signed for and on behalf of STS

Tim Qi  
(Technical Director)



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#	Test Item(s)	Reference Standard/Method	Result
<b>Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213 - For Plastic Material</b>			
5	Overall migration	EN 1186-1:2002 & EN 1186-3:2002	PASS
6	Specific migration of Heavy Metal	EN 13130-1: 2004, determined by ICP-OES	PASS
7	Specific migration of Primary Aromatic Amine	EN 13130-1:2004, determined by GC/MS	PASS
8	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
9	Bisphenol A (BPA) content	In-house Method, determined by LC-MS	PASS
<b>Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material</b>			
10	Overall migration	EN 1186-1:2002 & EN 1186-3:2002	PASS
11	Bisphenol A Contents	In-house Method, determined by LC/MS	PASS
12	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
<b>Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9 - For Metal Material</b>			
13	Extractable Heavy metal	BS EN 13130-1:2004&BS EN 11885:2009, determined by ICP-OES and ICP-MS	PASS
<b>French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone</b>			
14	Overall migration	EN 1186-1:2002 & EN 1186-3:2002	PASS
15	Peroxide Value	Europe pharmacopoeia,9.0 chapter 2.5.5.	PASS
16	Specific migration of Organotin (as Tin)	EN 13130-1: 2004, determined by ICP-OES	PASS
17	Volatile organic matter	French Arrêté du Novembre 1992 Annex III.	PASS
18	Bisphenol A Contents	In-house Method, determined by LC-MS	PASS
19	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
20	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS
<b>French Arrêté du 5 août 2020 and French Decret 2007-766, DGCCRF 2004-64 with amendments - For Rubber Material</b>			
21	Overall migration	EN 1186-1:2002 & EN 1186-3:2002	PASS
22	Peroxides value	French pharmacopoeia method	PASS
23	Bisphenol A Contents	In-house Method, determined by LC-MS	PASS
<b>Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245, and the Commission Regulation AP(2004)4 - For Rubber Material</b>			
24	Overall migration	EN 1186-1:2002 & EN 1186-3:2002	PASS
25	Bisphenol A (BPA) content	In-house Method, determined by LC-MS	PASS

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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	2	3	8		
1 Lead(Pb) CAS#7439-92-1	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>	-	-

Compound	Material		Limit (mg/kg)	RL (mg/kg)
	9			
1 Lead(Pb) CAS#7439-92-1	N.D.		500	10
<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)

### 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	3	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) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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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**

Compound			Result(s)			Limit (%)	RL (%)
			1	3	9		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	-	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	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	0.1	-
9	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) RL: Report limit  
 (b) N.D.: Not detected (result is less than RL)

**4. 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	3	9		
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	1	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	1	0.2

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4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	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.	1	0.2
<b>Conclusion</b>		<b>PASS</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.

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.

**Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213 - For Plastic Material**

## 5. Overall migration

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

Test specification	Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )	
	1					
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>			
1	10% Ethanol, 100°C, 1h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 100°C, 1h	N.D.	N.D.	N.D.	10	3
3	50% Ethanol, 100°C, 1h	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, 100°C, 1h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 100°C, 1h	N.D.	N.D.	N.D.	10	3
3	50% Ethanol, 100°C, 1h	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 EN 13130-1: 2004, determined by ICP-OES

Test condition: 3%Acetic acid, 100°C, 1h

Compound		Result			Limit (mg/kg)	RL (mg/kg)
		1				
		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
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

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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)	
	4					
	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
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

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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)

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

Test Condition: First 70 °C for 2 h, then 40 °C for 24 h

Compound	Result			Limit (mg/kg)	RL (mg/kg)
	1				
	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	Material			Limit (mg/kg)	RL (mg/kg)
	1				
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1 biphenyl-4-ylamine 4-aminobiphenyl xenylamine CAS# 92-67-1	N.D.	N.D.	N.D.	0.01	0.002
2 Benzidine CAS# 92-87-5	N.D.	N.D.	N.D.	0.01	0.002
3 4-chloro-o-toluidine CAS# 95-69-2	N.D.	N.D.	N.D.	0.01	0.002
4 2-Naphthylamine CAS# 91-59-8	N.D.	N.D.	N.D.	0.01	0.002

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5	o-aminoazotoluene 4-amino-2',3-dimethylazobenzene 4-o-tolylazo-o-toluidine CAS# 97-56-3	N.D.	N.D.	N.D.	0.01	0.002
6	5-nitro-o-toluidine CAS# 99-55-8	N.D.	N.D.	N.D.	0.01	0.002
7	5-Chloroaniline CAS# 106-47-8	N.D.	N.D.	N.D.	0.01	0.002
8	4-methoxy-m-phenylenediamine CAS# 615-05-4	N.D.	N.D.	N.D.	0.01	0.002
9	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane CAS# 101-77-9	N.D.	N.D.	N.D.	0.01	0.002
10	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine CAS# 91-94-1	N.D.	N.D.	N.D.	0.01	0.002
11	3,3'-dimethoxybenzidine o-dianisidine CAS# 119-90-4	N.D.	N.D.	N.D.	0.01	0.002
12	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS# 119-93-7	N.D.	N.D.	N.D.	0.01	0.002
13	4,4'-methylenedi-o-toluidine CAS# 838-88-0	N.D.	N.D.	N.D.	0.01	0.002
14	6-methoxy-m-toluidine p- cresidine CAS# 120-71-8	N.D.	N.D.	N.D.	0.01	0.002
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.	0.01	0.002
16	4,4'-oxydianiline CAS# 101-80-4	N.D.	N.D.	N.D.	0.01	0.002
17	4,4'-thiodianiline CAS# 139-65-1	N.D.	N.D.	N.D.	0.01	0.002
18	o-toluidine 2-aminotoluene CAS# 95-53-4	N.D.	N.D.	N.D.	0.01	0.002
19	4-methyl-m-phenylenediamine CAS# 95-80-7	N.D.	N.D.	N.D.	0.01	0.002
20	2,4,5-trimethylaniline CAS# 137-17-7	N.D.	N.D.	N.D.	0.01	0.002
21	o-anisidine 2-methoxyaniline CAS# 90-04-0	N.D.	N.D.	N.D.	0.01	0.002
22	4-amino azobenzene CAS# 60-09-3	N.D.	N.D.	N.D.	0.01	0.002
23	1,5- Diaminenaphthalene CAS# 2242-62-01	N.D.	N.D.	N.D.	0.01	0.002

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24	Aniline (ANL) CAS# 62-53-3	N.D.	N.D.	N.D.	0.01	0.002
25	2,4-Dimethylaniline (2,4-DMA) CAS# 95-68-1	N.D.	N.D.	N.D.	0.01	0.002
26	2,6-Dimethylaniline (2,6-DMA) CAS# 87-62-7	N.D.	N.D.	N.D.	0.01	0.002
27	m-Phenylenediamine (m- PDA) CAS# 108-45-2	N.D.	N.D.	N.D.	0.01	0.002
28	p-Phenylenediamine (p-PDA) CAS# 106-50-3	N.D.	N.D.	N.D.	0.01	0.002
29	2,6-Toluenediamine (2,6- TDA) CAS# 823-40-5	N.D.	N.D.	N.D.	0.01	0.002

Compound	Result			Limit (mg/kg)	RL (mg/kg)
	4				
	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	Material			Limit (mg/kg)	RL (mg/kg)
	4				
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1 biphenyl-4-ylamine 4- aminobiphenyl xenylamine CAS# 92-67-1	N.D.	N.D.	N.D.	0.01	0.002
2 Benzidine CAS# 92-87-5	N.D.	N.D.	N.D.	0.01	0.002
3 4-chloro-o-toluidine CAS# 95-69-2	N.D.	N.D.	N.D.	0.01	0.002
4 2-Naphthylamine CAS# 91-59-8	N.D.	N.D.	N.D.	0.01	0.002
5 o-aminoazotoluene 4-amino-2',3-dimethylazobenzene 4-o-tolylazo-o-toluidine CAS# 97-56-3	N.D.	N.D.	N.D.	0.01	0.002
6 5-nitro-o-toluidine CAS# 99-55-8	N.D.	N.D.	N.D.	0.01	0.002
7 5-Chloroaniline CAS# 106-47-8	N.D.	N.D.	N.D.	0.01	0.002
8 4-methoxy-m-phenylenediamine CAS# 615-05-4	N.D.	N.D.	N.D.	0.01	0.002

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9	4,4'-methylenedianiline 4,4'- diaminodiphenylmethane CAS# 101-77-9	N.D.	N.D.	N.D.	0.01	0.002
10	3,3'-dichlorobenzidine 3,3'- dichlorobiphenyl-4,4'- ylenediamine CAS# 91-94-1	N.D.	N.D.	N.D.	0.01	0.002
11	3,3'-dimethoxybenzidine o- dianisidine CAS# 119-90-4	N.D.	N.D.	N.D.	0.01	0.002
12	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS# 119-93-7	N.D.	N.D.	N.D.	0.01	0.002
13	4,4'-methylenedi-o-toluidine CAS# 838-88-0	N.D.	N.D.	N.D.	0.01	0.002
14	7-methoxy-m-toluidine p- cresidine CAS# 120-71-8	N.D.	N.D.	N.D.	0.01	0.002
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.	0.01	0.002
16	4,4'-oxydianiline CAS# 101-80-4	N.D.	N.D.	N.D.	0.01	0.002
17	4,4'-thiodianiline CAS# 139-65-1	N.D.	N.D.	N.D.	0.01	0.002
18	o-toluidine 2-aminotoluene CAS# 95-53-4	N.D.	N.D.	N.D.	0.01	0.002
19	5-methyl-m-phenylenediamine CAS# 95-80-7	N.D.	N.D.	N.D.	0.01	0.002
20	2,4,5-trimethylaniline CAS# 137-17-7	N.D.	N.D.	N.D.	0.01	0.002
21	o-anisidine 2-methoxyaniline CAS# 90-04-0	N.D.	N.D.	N.D.	0.01	0.002
22	4-amino azobenzene CAS# 60-09-3	N.D.	N.D.	N.D.	0.01	0.002
23	1,5- Diaminenaphthalene CAS# 2242-62-01	N.D.	N.D.	N.D.	0.01	0.002
24	Aniline (ANL) CAS# 62-53-3	N.D.	N.D.	N.D.	0.01	0.002
25	2,4-Dimethylaniline (2,4-DMA) CAS# 95-68-1	N.D.	N.D.	N.D.	0.01	0.002
26	2,6-Dimethylaniline (2,6-DMA) CAS# 87-62-7	N.D.	N.D.	N.D.	0.01	0.002
27	m-Phenylenediamine (m- PDA) CAS# 108-45-2	N.D.	N.D.	N.D.	0.01	0.002
28	p-Phenylenediamine (p-PDA) CAS# 106-50-3	N.D.	N.D.	N.D.	0.01	0.002
29	2,6-Toluenediamine (2,6- TDA) CAS# 823-40-5	N.D.	N.D.	N.D.	0.01	0.002

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

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

Test Condition: 3% Acetic acid, 100°C, 1h

Compound		Material			Limit (mg/kg)	RL (mg/kg)
		1				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Bisphenol A (BPA)	N.D.	N.D.	N.D.	0.05	0.01
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Compound		Material			Limit (mg/kg)	RL (mg/kg)
		4				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Bisphenol A (BPA)	N.D.	N.D.	N.D.	0.05	0.01
<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)

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

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

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## Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5 - For Silicone Material

### 10. Overall Migration

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

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, 100°C, 1h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 100°C, 1h	N.D.	N.D.	N.D.	10	3
3	50% Ethanol, 100°C, 1h	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> )
		5				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	10% Ethanol, 100°C, 1h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 100°C, 1h	N.D.	N.D.	N.D.	10	3
3	50% Ethanol, 100°C, 1h	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)

### 11. Specific migration of Bisphenol A

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

Test Condition: 3% Acetic acid, 100°C, 1h

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		3	5		
1	Bisphenol A (BPA)	N.D.	N.D.	0.05	0.01
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

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

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

Test Item		Material		Client's Limit (mg/kg)	RL (mg/kg)
		3	5		
1	Bisphenol A	N.D.	N.D.	Not Detected	0.01
<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)

## Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9 - For Metal Material

## 13. Specific Migration of Heavy Metal EN 13130-1: 2004&EN 11885:2009,determined by ICP-OES and ICP-MS

Test condition: 0.5% Citric acid, First 70 °C for 2 h, then 40 °C for 24 h, 3 times

Elements		Material		Limit (mg/kg)		RL (mg/kg)	
		2		1 <sup>st</sup> + 2 <sup>nd</sup>	3 <sup>rd</sup>	1 <sup>st</sup> + 2 <sup>nd</sup>	3 <sup>rd</sup>
		1 <sup>st</sup> + 2 <sup>nd</sup>	3 <sup>rd</sup>				
1	Tin (Sn)	N.D.	N.D.	700	100	2	1
2	Copper (Cu)	N.D.	N.D.	28	4	2	1
3	Iron (Fe)	N.D.	N.D.	280	40	2	1
4	Manganese (Mn)	N.D.	N.D.	12.6	1.8	0.2	0.1
5	Zinc (Zn)	N.D.	N.D.	35	5	2	1
6	Aluminum (Al)	N.D.	N.D.	35	5	2	1
7	Barium (Ba)	N.D.	N.D.	8.4	1.2	0.2	0.1
8	Chromium (Cr)	N.D.	N.D.	1.75	0.25	0.1	0.05

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9	Nickel (Ni)	N.D.	N.D.	0.98	0.14	0.1	0.05
10	Lithium (Li)	N.D.	N.D.	0.336	0.048	0.02	0.01
11	Beryllium (Be)	N.D.	N.D.	0.07	0.01	0.002	0.001
12	Vanadium (V)	N.D.	N.D.	0.07	0.01	0.002	0.001
13	Cobalt (Co)	N.D.	N.D.	0.14	0.02	0.002	0.001
14	Molybdenum (Mo)	N.D.	N.D.	0.84	0.12	0.02	0.01
15	Silver (Ag)	N.D.	N.D.	0.56	0.08	0.02	0.01
16	Antimony (Sb)	N.D.	N.D.	0.28	0.04	0.02	0.01
17	Lead (Pb)	N.D.	N.D.	0.07	0.01	0.002	0.001
18	Arsenic (As)	N.D.	N.D.	0.014	0.002	0.002	0.001
19	Cadmium (Cd)	N.D.	N.D.	0.035	0.005	0.002	0.001
20	Mercury (Hg)	N.D.	N.D.	0.021	0.003	0.002	0.001
21	Thallium (Tl)	N.D.	N.D.	0.0007	0.0001	0.0002	0.0001
22	Magnesium (Mg)	N.D.	N.D.	-	-	2	1
23	Titanium (Ti)	N.D.	N.D.	-	-	2	1
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-	-	-

Elements	Material	6		Limit (mg/kg)		RL (mg/kg)	
		1 <sup>st</sup> + 2 <sup>nd</sup>	3 <sup>rd</sup>	1 <sup>st</sup> + 2 <sup>nd</sup>	3 <sup>rd</sup>	1 <sup>st</sup> + 2 <sup>nd</sup>	3 <sup>rd</sup>
		1	Tin (Sn)	N.D.	N.D.	700	100
2	Copper (Cu)	N.D.	N.D.	28	4	2	1
3	Iron (Fe)	N.D.	N.D.	280	40	2	1
4	Manganese (Mn)	N.D.	N.D.	12.6	1.8	0.2	0.1
5	Zinc (Zn)	N.D.	N.D.	35	5	2	1

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6	Aluminum (Al)	N.D.	N.D.	35	5	2	1
7	Barium (Ba)	N.D.	N.D.	8.4	1.2	0.2	0.1
8	Chromium (Cr)	N.D.	N.D.	1.75	0.25	0.1	0.05
9	Nickel (Ni)	N.D.	N.D.	0.98	0.14	0.1	0.05
10	Lithium (Li)	N.D.	N.D.	0.336	0.048	0.02	0.01
11	Beryllium (Be)	N.D.	N.D.	0.07	0.01	0.002	0.001
12	Vanadium (V)	N.D.	N.D.	0.07	0.01	0.002	0.001
13	Cobalt (Co)	N.D.	N.D.	0.14	0.02	0.002	0.001
14	Molybdenum (Mo)	N.D.	N.D.	0.84	0.12	0.02	0.01
15	Silver (Ag)	N.D.	N.D.	0.56	0.08	0.02	0.01
16	Antimony (Sb)	N.D.	N.D.	0.28	0.04	0.02	0.01
17	Lead (Pb)	N.D.	N.D.	0.07	0.01	0.002	0.001
18	Arsenic (As)	N.D.	N.D.	0.014	0.002	0.002	0.001
19	Cadmium (Cd)	N.D.	N.D.	0.035	0.005	0.002	0.001
20	Mercury (Hg)	N.D.	N.D.	0.021	0.003	0.002	0.001
21	Thallium (Tl)	N.D.	N.D.	0.0007	0.0001	0.0002	0.0001
22	Magnesium (Mg)	N.D.	N.D.	-	-	2	1
23	Titanium (Ti)	N.D.	N.D.	-	-	2	1
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
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French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments-For Silicone

## 14. Overall migration

EN 1186-1:2002 & EN 1186-3:2002& EN 1186-14:2002

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, 100°C, 1h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 100°C, 1h	N.D.	N.D.	N.D.	10	3
3	50% Ethanol, 100°C, 1h	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> )
		5				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	10% Ethanol, 100°C, 1h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 100°C, 1h	N.D.	N.D.	N.D.	10	3
3	50% Ethanol, 100°C, 1h	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)

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**15. Peroxide Value**  
Europe pharmacopoeia,9.0 chapter 2.5.5.

Compound		Material		Requirement
		3	5	
1	Peroxide Value	Negative	Negative	Negative
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-

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

Test condition:3%acetic acid ,100 °C ,1h Volume to surface area ratio: 169 ml / dm<sup>2</sup>

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		3	5		
1	Organotin(as Sn)	N.D.		0.1	0.01
	<b>Conclusion</b>	<b>PASS</b>		-	-

Test condition:3%acetic acid ,100 °C ,1h Volume to surface area ratio: 167 ml / dm<sup>2</sup>

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		5			
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  
(c) N.D.: Not detected (result is less than RL)

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

Test condition: 200°C, 4h

Compound		Material		Limit (%)	RL (%)
		3	5		
1	Volatile Compounds	0.14	N.D.	0.5	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)

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

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		3	5		
1	Bisphenol A	N.D.	N.D.	Prohibit	0.1
	<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)

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

Test Condition: 3% Acetic acid, 100°C, 1h

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		3 <sup>-3rd</sup>	5 <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) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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

	Sample	7
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 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)

## French Arrêté du 5 août 2020 and French Decret 2007-766, DGCCRF 2004-64 with amendments - For Rubber Material

## 21. Overall migration EN 1186-1:2002 & EN 1186-3:2002& EN 1186-14:2002

Test specification		Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		9				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	3% Acetic acid, 100 °C ,1h	N.D.	N.D.	N.D.	10	3
2	50% Ethanol, 100°C, 1h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

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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)

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

Compound		Material		Requirement
		9		
1	Peroxide Value	Negative		Negative
Conclusion		PASS		-

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

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		9			
1	Bisphenol A	N.D.		Prohibit	0.1
Conclusion		PASS		-	-

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

Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245, and the Commission Regulation AP(2004)4 - For Rubber Material

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

Test specification		Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		9				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	3% Acetic acid, 100°C, 1h	N.D.	N.D.	N.D.	10	3

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2	50% Ethanol, 100°C, 1h	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)

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

Test Item	Material		Client's Limit (mg/kg)	RL (mg/kg)
	9			
1	Bisphenol A	N.D.	Not Detected	0.01
	<b>Conclusion</b>	<b>PASS</b>	-	-

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

## Material List:

Material #	Position / Sample Description	Material
1	Black plastic,upper lid	PP
2	Silvery metal,upper cup body	Stainless steel 304
3	Transparent silica gel,small ring	Silicone
4	Black plastic,lower lid	PP
5	Transparent silica gel,big ring	Silicone
6	Silvery metal,lower cup body	Stainless steel 304
7	Article	-
8	Silvery metal,handle	-
9	Black soft plastic,cushion	TPR

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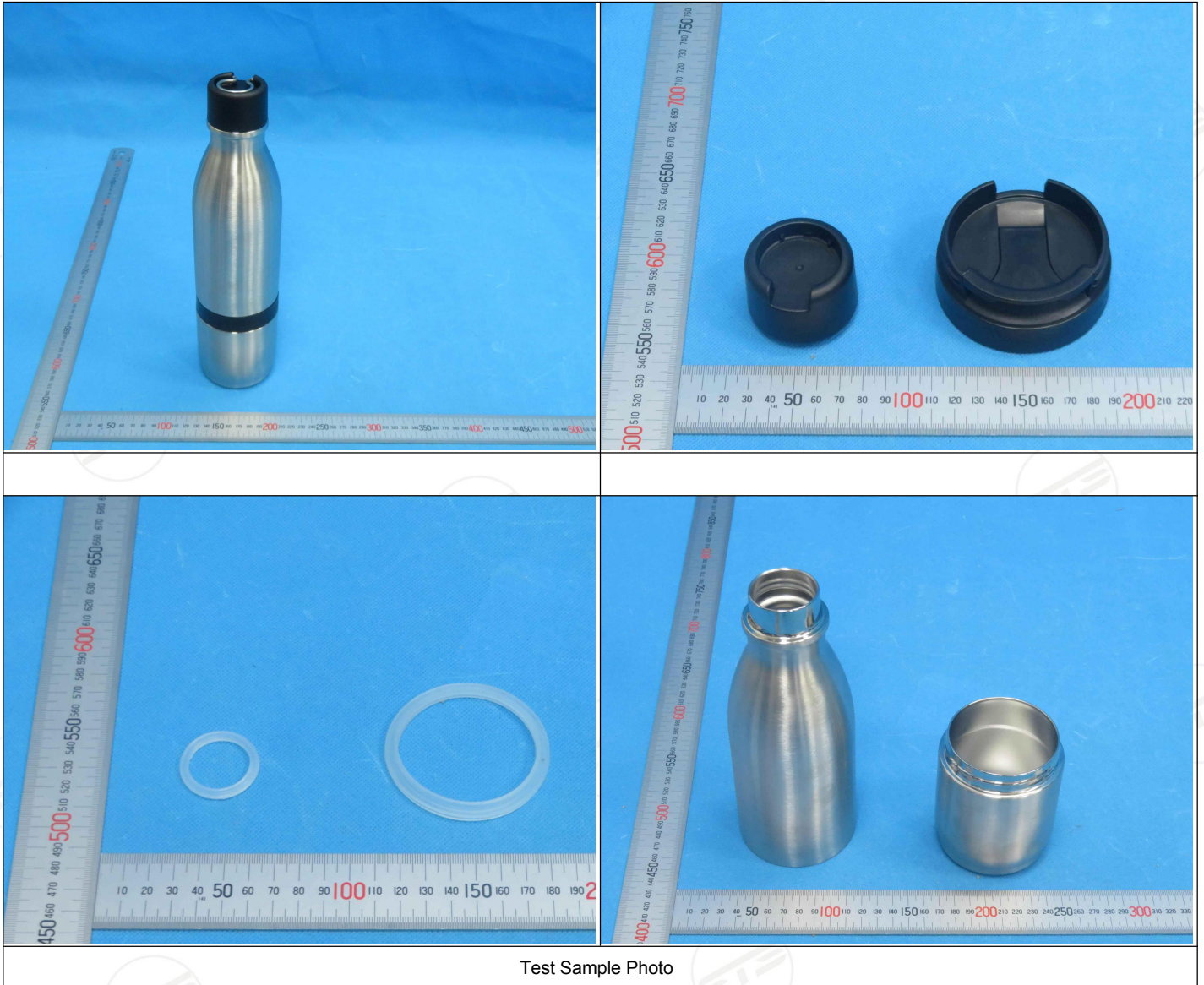
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## Photo(s):



Test Sample Photo

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**<<<<< END OF REPORT >>>>>**  
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