



TEST REPORT

Report No.: STSGZ2210083051E

Date: 13-Oct-2022

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Applicant : Mid Ocean Brands B.V.

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

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

Sample Name: Glass bottle with RPET felt pouch

Model/Style/Item #: MO6800

Receiving Date: 8-Oct-2022

Test Period: From 8-Oct-2022 to 12-Oct-2022

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
2	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
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	PASS
4	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	ISO 14362-1:2017 & ISO 14362-3:2017, determined by GC/MS and HPLC	PASS

*****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
5	Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 1186-1:2002 & EN 1186-3:2002	PASS
6	Overall migration - Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material	EN 1186-1:2002 & EN 1186-3:2002	PASS
7	Specific migration of Heavy Metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	EN 13130-1: 2004, determined by ICP-OES	PASS
8	Specific migration of Primary Aromatic Amine - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	EN 13130-1:2004, determined by GC/MS	PASS
9	Bisphenol A (BPA) content - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	In-house Method, determined by LC-MS	PASS
10	Extractable Lead, Cadmium - Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC	EN 1388-1:1995, determined by ICP-OES	PASS
11	Overall migration - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material	EN 1186-1:2002 & EN 1186-3:2002	PASS
12	Volatile Compounds Content - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	Order 25/11/1992	PASS
13	Peroxides value - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	French pharmacopoeia method	PASS
14	Organotin Content for Silicone Materials in Contact with Foodstuffs - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	EN 13130-1:2004, determined by ICP-OES	PASS
15	Bisphenol A Contents - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	In-house Method, determined by LC-MS	PASS
16	Colour Fastness to Rubbing	BS EN ISO 105-X12:2016	PASS
17	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	PASS
18	As specified by client, determination of the released formaldehyde content in submitted sample	EN 717-3:1996, analyzed by Spectrophotometer(UV)	PASS
19	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS
20	Microwave safe test	EN 15284:2007	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		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	500	10
	Conclusion	PASS	PASS	-	-

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	2		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	-	-

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

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

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

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

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

**4. 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**

	Compound	Material		Limit (mg/kg)	RL (mg/kg)
		3	4		
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	N.D.	30	5
3	4-chloro-o-toluidine CAS#95-69-2	N.D.	N.D.	30	5
4	2-Naphthylamine CAS#91-59-8	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.	30	5
6	5-nitro-o-toluidine/2-amino-4- nitrotoluol* CAS#99-55-8	N.D.	N.D.	30	5
7	4-chloroaniline CAS#106-47-8	N.D.	N.D.	30	5
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	N.D.	30	5
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	N.D.	30	5

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10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	N.D.	30	5
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	N.D.	30	5
12	3,3'-dimethylbenzidine/4,4'-bi-o- toluidine CAS#119-93-7	N.D.	N.D.	30	5
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	N.D.	30	5
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	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.	30	5
16	4,4'-oxydianiline CAS#101-80-4	N.D.	N.D.	30	5
17	4,4'-thiodianiline CAS#139-65-1	N.D.	N.D.	30	5
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	N.D.	30	5
19	2,4-diaminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	N.D.	30	5
22	4-aminoazobenzene** CAS#60-09-3	N.D.	N.D.	30	5
Conclusion		PASS	PASS	-	-

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

*: 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-phenylenediamine (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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**5. Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245
EN 1186-1:2002 & EN 1186-3:2002**

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

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

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

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

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

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

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

Compound		Result			Limit (mg/kg)	RL (mg/kg)
		1				
		1 st	2 nd	3 rd		
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
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
Conclusion		-	-	PASS	-	-

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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)

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

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

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

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	2		
1 Bisphenol A	N.D.	N.D.	Not Detected	0.01
Conclusion	PASS	PASS	-	-

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

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**10. Extractable Lead, Cadmium - Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC
EN 1388-1:1995, determined by ICP-OES**

Test Condition: 4% Acetic acid, 22°C, 24h

Test specification		Result(s)	Limit (mg/L)	RL (mg/L)
		5		
1	Lead (Pb)	N.D.	4	0.1
2	Cadmium (Cd)	N.D.	0.3	0.01
Conclusion		PASS	-	-

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

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

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

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

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

Test condition: 200°C, 4h

Compound		Material	Limit (%)	RL (%)
		2		
1	Volatile Compounds	0.27	0.5	0.1
Conclusion		PASS	-	-

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

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

Compound		Material	Requirement
		2	
1	Peroxide Value	Negative	Negative
Conclusion		PASS	-

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

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

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		2		
1	Organotin(as Sn)	N.D.	0.1	0.01
Conclusion		PASS	-	-

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

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

In-house Method, determined by LC-MS

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

16. Colour Fastness to Rubbing - BS EN ISO 105-X12:2016**PASS**(Minimum requirement(Grade): Color staining dry \geq 4 , wet \geq 4)

Sample	Result (Grade)	
	Dry	Wet
Black fabric, cover	4-5	4

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

17. 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*1					
		1	2	3	4		
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

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6	Benzo[a]pyrene(BaP) CAS#50-32-8	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
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	N.D.	1	0.2
Conclusion		PASS	PASS	PASS	PASS	-	-

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.

**18. As specified by client, determination of the released formaldehyde content in submitted sample
 EN 717-3: 1996,analyzed by UV-Vis**

Compound		Result(s)	Limit (mg/kg)	RL (mg/kg)
		6		
1	Formaldehyde	N.D.	80	10
Conclusion		PASS	-	-

Remark(s): (a) mg/kg: milligrams per kilogram
 (b) RL: report limit

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**19 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 ¹⁾	0
	Gloss	0
	Clouding	0
	Resistant deposits and iridescent layers ²⁾	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)

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20. Microwave safe test EN 15284:2007

Sample Description: Article										
Sample	Arcing	Max surface Temperature of sample after short period heating(°C)	Visual damage checking required for plastic sample						Rating	
			Short period of heating							
			Cracking	Color	Melting	Deformation	Suitability for re-use	Charring		
7A	0	37.8	0	0	0	0	0	0	0	Pass
7B	0	37.5	0	0	0	0	0	0	0	Pass
7C	0	37.6	0	0	0	0	0	0	0	Pass

Sample Description: Article(Red)										
Sample	Arcing	Max surface Temperature of sample after short period heating(°C)	Visual damage checking required for plastic sample						Rating	
			long period of heating							
			Cracking	Color	Melting	Deformation	Suitability for re-use	Charring		
7A	0	37.8	0	0	0	0	0	0	0	Pass
7B	0	37.5	0	0	0	0	0	0	0	Pass
7C	0	37.6	0	0	0	0	0	0	0	Pass

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

Requirement:

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

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

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

Material List:

Material #	Position / Sample Description	Material
1	White plastic,lid	PP
2	Translucent silicone,sealring	Silicone
3	Black fabric,cover	-
4	Brown PU,handle	-
5	Transparent glass,bottle	Glass
6	Brown wood,lid	-
7	Article	-

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Photo(s):



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