

Test Report

Report No.: CTT2211010772EN

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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.
Manufacturer:111021

Sample Received Date: Nov. 04, 2022

Completed Date: Nov. 10, 2022

Report Date: Nov. 11, 2022

The following merchandise was (were) submitted and identified on behalf of the applicant as:

Sample Name: MO6750

Manufacturer:

Buyer: MID OCEAN BRAND B.V.

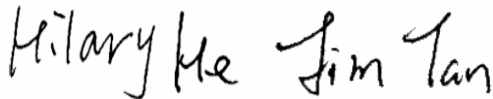
Country of Origin: China

Manufacturer Addresss:

Test Result(s): Please refer to next page(s).

Test Requested and Conclusion(s): Please refer to next page(s).

Signed for and on Behalf of CTT:



Hilary He/Jim Tan
Technical Manager



Verification Report

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Test Requested and Conclusion(s):

No.	Standard and Requirement	Conclusion(s)
1	Client's requirements - Bisphenol A (BPA)	PASS
2	Annex XVII items 63 of the REACH Regulation (EC) No. 1907/2006 and its amendment - Lead	PASS
3	Annex XVII items 23 of the REACH Regulation (EC) No. 1907/2006 and its amendment - Cadmium	PASS
4	Annex XVII items 50 of the REACH Regulation (EC) No 1907/2006 Class II - Polycyclic aromatic hydrocarbons	PASS
5	Annex XVII items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 and its amendment - Phthalates	PASS
6	Framework Resolution ResAP(2004)5 on silicones used for food contact applications. - Overall Migration	PASS
7	CM/Res(2013)9 on metals and alloys used in food contact materials and articles. - Specific Release of 23 Metals	PASS
8	Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food. - Overall Migration - Volatile Organic Matter(VOM) - Peroxides	PASS
9	Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food. - Organotin	PASS
10	COMMISSION REGULATION (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food. - Overall Migration - Migration of Heavy metal	PASS
11	Dishwasher safe Test	PASS

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Test Result(s):

Bisphenol A (BPA) - Client's requirements

Method: EPA 3550C:2007ⁿ, analyzed by Ultra High Performance Liquid Chromatography-Mass Spectrometry (UPLC-MS/MS) .

Substances	Bisphenol A (BPA)	Conclusion
CAS No.	80-05-7	
Reporting Limit (mg/kg)	0.1	
Limit (mg/kg)	0.1	
Material No.	Result (mg/kg)	
1	N.D.	PASS
2	N.D.	PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).

Test Result(s):

Lead - Annex XVII items 63 of the REACH Regulation (EC) No. 1907/2006 and its amendment

Method: CPSC-CH-E1001-08.3, analyzed by Atomic Absorption Spectrometer (AAS) .

Substances	Lead (Pb)	Conclusion
CAS No.	7439-92-1	
Reporting Limit (mg/kg)	10	
Limit (mg/kg)	500	
Material No.	Result (mg/kg)	
3	17	PASS

- NOTE:**
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 2. N.D. = Not Detected (Less than Reporting Limit).

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Test Result(s):

Lead - Annex XVII items 63 of the REACH Regulation (EC) No. 1907/2006 and its amendment

Method: CPSC-CH-E1003-09.1, analyzed by Atomic Absorption Spectrometer (AAS) .

Substances	Lead (Pb)	Conclusion
CAS No.	7439-92-1	
Reporting Limit (mg/kg)	10	
Limit (mg/kg)	500	
Material No.	Result (mg/kg)	
4+5+6	N.D.	PASS
7+8+9	N.D.	PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).
 3. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if materials are tested separately. This had been taken in account in the conclusion of this report.

Test Result(s):

Lead - Annex XVII items 63 of the REACH Regulation (EC) No. 1907/2006 and its amendment

Method: CPSC-CH-E1002-08.3, analyzed by Atomic Absorption Spectrometer (AAS) .

Substances	Lead (Pb)	Conclusion
CAS No.	7439-92-1	
Reporting Limit (mg/kg)	10	
Limit (mg/kg)	500	
Material No.	Result (mg/kg)	
1	N.D.	PASS
2	N.D.	PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).

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Test Result(s):

Cadmium - Annex XVII items 23 of the REACH Regulation (EC) No. 1907/2006 and its amendment

Method: CPSC-CH-E1001-08.3ⁿ, analyzed by Atomic Absorption Spectrometer (AAS) .

Substances	Cadmium (Cd)	Conclusion
CAS No.	7440-43-9	
Reporting Limit (mg/kg)	2	
Limit (mg/kg)	100	
Material No.	Result (mg/kg)	
3	N.D.	PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).

Test Result(s):

Cadmium - Annex XVII items 23 of the REACH Regulation (EC) No. 1907/2006 and its amendment

Method: CPSC-CH-E1003-09.1ⁿ, analyzed by Atomic Absorption Spectrometer (AAS) .

Substances	Cadmium (Cd)	Conclusion
CAS No.	7440-43-9	
Reporting Limit (mg/kg)	2	
Limit (mg/kg)	1000	
Material No.	Result (mg/kg)	
4+5+6	N.D.	PASS
7+8+9	N.D.	PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).
 3. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if materials are tested separately. This had been taken in account in the conclusion of this report.

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Test Result(s):

Cadmium - Annex XVII items 23 of the REACH Regulation (EC) No. 1907/2006 and its amendment

Method: CPSC-CH-E1002-08.3ⁿ, analyzed by Atomic Absorption Spectrometer (AAS) .

Substances	Cadmium (Cd)	Conclusion
CAS No.	7440-43-9	
Reporting Limit (mg/kg)	2	
Limit (mg/kg)	100	
Material No.	Result (mg/kg)	
1	N.D.	PASS
2	N.D.	PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).

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Test Result(s):

Polycyclic aromatic hydrocarbons - Annex XVII items 50 of the REACH Regulation (EC) No 1907/2006 Class II

Method: AfPS GS 2019:01 PAK, analyzed by Gas Chromatography-Mass Spectrometer (GC-MS) .

No.	Substances Name	CAS No.	Limit (mg/kg)	Reporting Limit (mg/kg)	Result (mg/kg)	
					4+5+6	7+8+9
1	Benzo(a)anthracene (BaA)	56-55-3	1	0.20	N.D.	N.D.
2	Chrysene (CHR)	218-01-9	1	0.20	N.D.	N.D.
3	Benzo(b)fluoranthene (BbF)	205-99-2	1	0.20	N.D.	N.D.
4	Benzo(k)fluoranthene (BkF)	207-08-9	1	0.20	N.D.	N.D.
5	Benzo(a)pyrene (BaP)	50-32-8	1	0.20	N.D.	N.D.
6	Dibenzo(a,h)anthracene (DBA)	53-70-3	1	0.20	N.D.	N.D.
7	Benzo(e)pyrene (BeP)	192-97-2	1	0.20	N.D.	N.D.
8	Benzo(j)fluoranthene (BjF)	205-82-3	1	0.20	N.D.	N.D.
Conclusion					PASS	PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).
 3. "--" = Not Regulated.
 4. Product Class:
 - I = Extender oils.
 - II = Rubber or plastic components 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.
 - III = Toys, including activity toys, and childcare articles, if any of their rubber or plastic components 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.
 5. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if materials are tested separately. This had been taken in account in the conclusion of this report.

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Test Result(s):

Phthalates - Annex XVII items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 and its amendment

Method: CPSC-CH-C1001-09.4, analyzed by Gas Chromatography-Mass Spectrometer (GC-MS) .

No.	Substances Name	CAS No.	Limit (mg/kg)	Reporting Limit (mg/kg)	Result (mg/kg)	
					1+2	4+5+6
1	Di-butyl phthalate (DBP)	84-74-2	--	50	N.D.	N.D.
2	Butyl benzyl phthalate (BBP)	85-68-7	--	50	N.D.	N.D.
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	--	50	N.D.	N.D.
4	Phthalic acid, bis-n-octyl ester (DNOP)	117-84-0	--	50	N.D.	N.D.
5	Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	--	100	N.D.	N.D.
6	Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	--	100	N.D.	N.D.
7	Di-iso-butyl phthalate (DIBP)	84-69-5	--	50	N.D.	N.D.
8	Sum (DNOP+DINP+DIDP)	--	1000	100	N.D.	N.D.
9	Sum (DBP+BBP+DEHP+DIBP)	--	1000	50	N.D.	N.D.
Conclusion					PASS	PASS

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No.	Substances Name	CAS No.	Limit (mg/kg)	Reporting Limit (mg/kg)	Result (mg/kg)
					7+8+9
1	Di-butyl phthalate (DBP)	84-74-2	--	50	N.D.
2	Butyl benzyl phthalate (BBP)	85-68-7	--	50	N.D.
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	--	50	N.D.
4	Phthalic acid, bis-n-octyl ester (DNOP)	117-84-0	--	50	N.D.
5	Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	--	100	N.D.
6	Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	--	100	N.D.
7	Di-iso-butyl phthalate (DIBP)	84-69-5	--	50	N.D.
8	Sum (DNOP+DINP+DIDP)	--	1000	100	N.D.
9	Sum (DBP+BBP+DEHP+DIBP)	--	1000	50	N.D.
Conclusion					PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).
 3. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if materials are tested separately. This had been taken in account in the conclusion of this report.

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Test Result(s):

Overall Migration - Framework Resolution ResAP(2004)5 on silicones used for food contact applications.

Material No.	Test Condition	Reporting Limit (mg/dm ²)	Limit (mg/dm ²)	Result (mg/dm ²)	Conclusion
2D	10% Ethanol(v/v) ,100°C ,1h	3	10	N.D.	PASS
	3% Acetic acid(v/v) ,100°C ,1h	3	10	N.D.	

NOTE:

1. mg/dm²=milligram per square decimeter.
2. N.D. = Not Detected (Less than Reporting Limit).
3. "D" = The result(s) is(are) tested according to the method EN1186-1:2002&EN 1186-3:2002 & EN 1186-9:2002 & EN 1186-14:2002.

Test Result(s):

Specific Release of 23 Metals - Council of Europe Resolution CM/Res(2013)9 on metals and alloys used in food contact materials and articles.

Method: EDQM Technical Guide Resolution CM/Res(2013)9, analyzed by Inductively coupled plasma mass spectrometry (ICP-MS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) .

Material No.	Test Item	Reporting Limit (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
3	Aluminum (1st+2nd)	2	35	N.D.	PASS
	Aluminum (3rd)	1	5	N.D.	
	Antimony (1st+2nd)	0.02	0.28	N.D.	
	Antimony (3rd)	0.01	0.04	N.D.	
	Arsenic (1st+2nd)	0.002	0.014	N.D.	
	Arsenic (3rd)	0.001	0.002	N.D.	
	Barium (1st+2nd)	0.2	8.4	N.D.	
	Barium (3rd)	0.1	1.2	N.D.	
	Beryllium (1st+2nd)	0.002	0.07	N.D.	
	Beryllium (3rd)	0.001	0.01	N.D.	
	Cadmium (1st+2nd)	0.002	0.035	N.D.	
	Cadmium (3rd)	0.001	0.005	N.D.	
	Chromium (1st+2nd)	0.100	1.750	N.D.	
	Chromium (3rd)	0.050	0.250	N.D.	
	Cobalt (1st+2nd)	0.002	0.14	N.D.	
	Cobalt (3rd)	0.001	0.02	N.D.	
	Copper (1st+2nd)	2	28	N.D.	
	Copper (3rd)	1	4	N.D.	

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Iron (1st+2nd)	2	280	N.D.
Iron (3rd)	1	40	N.D.
Lead (1st+2nd)	0.002	0.07	N.D.
Lead (3rd)	0.001	0.01	N.D.
Lithium (1st+2nd)	0.020	0.336	N.D.
Lithium (3rd)	0.010	0.048	N.D.
Manganese (1st+2nd)	0.2	12.6	N.D.
Manganese (3rd)	0.1	1.8	N.D.
Mercury (1st+2nd)	0.002	0.021	N.D.
Mercury (3rd)	0.001	0.003	N.D.
Molybdenum (1st+2nd)	0.02	0.84	N.D.
Molybdenum (3rd)	0.01	0.12	N.D.
Nickel (1st+2nd)	0.10	0.98	N.D.
Nickel (3rd)	0.05	0.14	N.D.
Silver(1st+2nd)	0.02	0.56	N.D.
Silver (3rd)	0.01	0.08	N.D.
Thallium (1st+2nd)	0.0002	0.0007	N.D.
Thallium (3rd)	0.0001	0.0001	N.D.
Tin (1st+2nd)	2	700	N.D.
Tin (3rd)	1	100	N.D.
Titanium (1st+2nd)	2	--	N.D.
Titanium (3rd)	1	--	N.D.
Magnesium (1st+2nd)	2	--	N.D.
Magnesium (3rd)	1	--	N.D.
Vanadium (1st+2nd)	0.002	0.07	N.D.
Vanadium (3rd)	0.001	0.01	N.D.
Zinc (1st+2nd)	2	35	N.D.
Zinc (3rd)	1	5	N.D.

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).
 3. Test condition: Artificial tap water at 100°C for 1 hour.

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Test Result(s):

Overall Migration - Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food.

Method: EN1186-1:2002&EN 1186-3:2002 & EN 1186-9:2002 & EN 1186-14:2002

Material No.	Test Condition	Reporting Limit (mg/dm ²)	Limit (mg/dm ²)	Result (mg/dm ²)	Conclusion
2	10% Ethanol(v/v) ,100°C ,1h	3	10	N.D.	PASS
	3% Acetic acid(v/v) ,100°C ,1h	3	10	N.D.	

- NOTE:**
1. mg/dm²=milligram per square decimeter.
 2. N.D. = Not Detected (Less than Reporting Limit).

Test Result(s):

Volatile Organic Matter(VOM) - Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food.

Method: French Arrêté du 25 November 1992, ANNEX III

Material No.	Test Item	Reporting Limit (%)	Limit (%)	Result (%)	Conclusion
2	Volatile Organic Matter(VOM)	0.1	0.5	0.31	PASS

- NOTE:**
1. % = percentage.
 2. N.D. = Not Detected (Less than Reporting Limit).

Test Result(s):

Peroxides - Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food.

Method: French pharmacopoeia, Xth edition.

Material No.	Test Item	Limit	Result	Conclusion
2	Peroxides	Absent	Absent	PASS

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Test Result(s):

Organotin - Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food.

Method: In house Methodⁿ, analyzed by Gas Chromatography-Mass Spectrometer (GC-MS) or Inductively coupled plasma mass spectrometry (ICP-MS) .

No.	Substances Name	CAS No.	Limit (mg/kg)	Reporting Limit (mg/kg)	Result (mg/kg)
					2
1	Organic tin	--	0.1	0.1	N.D.
2	Bis(tributyltin) oxide (TBTO)	56-35-9	--	0.1	N.D.
3	Di-n-propyl tin (DPrT)	2406-60-2	--	0.1	N.D.
4	Dibutyltin dichloride (DBTC)	683-18-1	--	0.1	N.D.
5	Dibutyltin hydrogen borate (DBB)	75113-37-0	--	0.1	N.D.
6	Dimethyltin (DMT)	23120-99-2	--	0.1	N.D.
7	Diphenyltin (DPHT)	6381-06-2	--	0.1	N.D.
8	Trimethyltin (TMT)	5089-96-3	--	0.1	N.D.
9	Trioctyltin (TOT)	869-59-0	--	0.1	N.D.
10	Tripropyltin (TPrT)	761-44-4	--	0.1	N.D.
Conclusion					PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).

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Test Result(s):

Overall Migration - COMMISSION REGULATION (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food.

Method: EN1186-1:2002&EN 1186-3:2002 & EN 1186-9:2002 & EN 1186-14:2002

Materi al No.	Test Condition	Test Item	Reporting Limit (mg/dm ²)	Limit (mg/dm ²)	Result (mg/dm ²)	Conclusion
1	3% Acetic acid(w/v) , 100°C ,1h	Overall Migration (1st)	3	--	N.D.	PASS
		Overall Migration (2nd)	3	--	N.D.	
		Overall Migration (3rd)	3	10	N.D.	
	10% Ethanol(v/v) , 100°C ,1h	Overall Migration (1st)	3	--	N.D.	PASS
		Overall Migration (2nd)	3	--	N.D.	
		Overall Migration (3rd)	3	10	N.D.	

NOTE:

1. mg/dm²= milligram per square decimeter.
2. N.D. = Not Detected (Less than Reporting Limit).
3. The material or article is intended to come into repeated contact with foods, the migration test(s) shall be carried out three times. The results of subsequent migrations must not exceed the previous ones and the determination of compliance is based on the third migration result.

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Test Result(s):

Migration of Heavy metal - COMMISSION REGULATION (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food.

Method: BS EN 13130-1:2004, analyzed by Inductively coupled plasma mass spectrometry (ICP-MS) .

No.	Elements	Limit (mg/kg)	Results (mg/kg)		
			1		
			1st	2nd	3rd
1	Barium (Ba)	1	<0.1	<0.1	<0.1
2	Cobalt (Co)	0.05	<0.05	<0.05	<0.05
3	Copper (Cu)	5	<0.5	<0.5	<0.5
4	Iron (Fe)	48	<1	<1	<1
5	Lithium (Li)	0.6	<0.1	<0.1	<0.1
6	Manganese (Mn)	0.6	<0.05	<0.05	<0.05
7	Zinc (Zn)	5	<1	<1	<1
8	Aluminium (Al)	1	<0.1	<0.1	<0.1
9	Nickel (Ni)	0.02	<0.01	<0.01	<0.01
10	Lead (Pb)	0.01	<0.01	<0.01	<0.01
11	Cadmium (Cd)	0.002	<0.002	<0.002	<0.002
12	Arsenic (As)	0.01	<0.01	<0.01	<0.01
13	Mercury (Hg)	0.01	<0.01	<0.01	<0.01
14	Chromium (Cr)	0.01	<0.01	<0.01	<0.01
15	Antimony (Sb)	0.04	<0.02	<0.02	<0.02
16	Europium (Eu)	0.05	<0.01	<0.01	<0.01
17	Gadolinium (Gd)				
18	Lanthanum (La)				
19	Terbium (Tb)				
Conclusion			PASS		

- Note:**
1. Test Condition: 3% Acetic acid(w/v) ,100°C ,1h.
 2. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
 3. The results of the three migration tests should show a decreasing trend, and the results of the third test should be used to determine the compliance.

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Test Results:

Material No.
A1R

Dishwasher safe test (In House Method) ⁿ.

No. of Cycles:	(10) cycles
Dishwasher:	Siemens SD6P15
Detergent Brand:	Cascade
Washing condition: 1. Cycle Time: 2. Cycle Water Temperature: 3. Location inside dishwasher:	~ 90 Minutes. Main Wash ~ 140 °F (60 °C) Rinse ~ 161 °F (72 °C) Top rack
Testing Procedure:	1) Visually inspect sample and record any aesthetic defects. 2) Load into the dishwasher and run the wash cycle as per the above condition. 3) Examine from a distance of ~30cm and record any difference as compared with the control sample. 4) Repeat 2) ~ 3) until the required number of cycle is completed.
Test Requirement:	No discoloration, deformation, staining of water (water mark), or substantial deterioration of item's appearance and/or function.
Conclusion(s):	PASS 1. No noticeable change in appearance / size was found on the sample(s) 2. The tested sample(s) remained functional

- NOTE:**
- 1."R" = The test result is referred from identical material of other report according to applicant's request.
 - 2."A1R" = This data is refer to data of CTT2210010884EN -1.

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Test Material List

Material No.	Sample Description	Location
1	Black plastic	Inside lid
2	Transparent silicone	Seal ring
3	Silvery metal	Tank
4	White paint	Paint
5	Green paint	Paint
6	Black paint	Paint
7	Orange paint	Paint
8	Blue paint	Paint
9	Red paint	Paint
A1	MO6750 stainless steel cup	Individual

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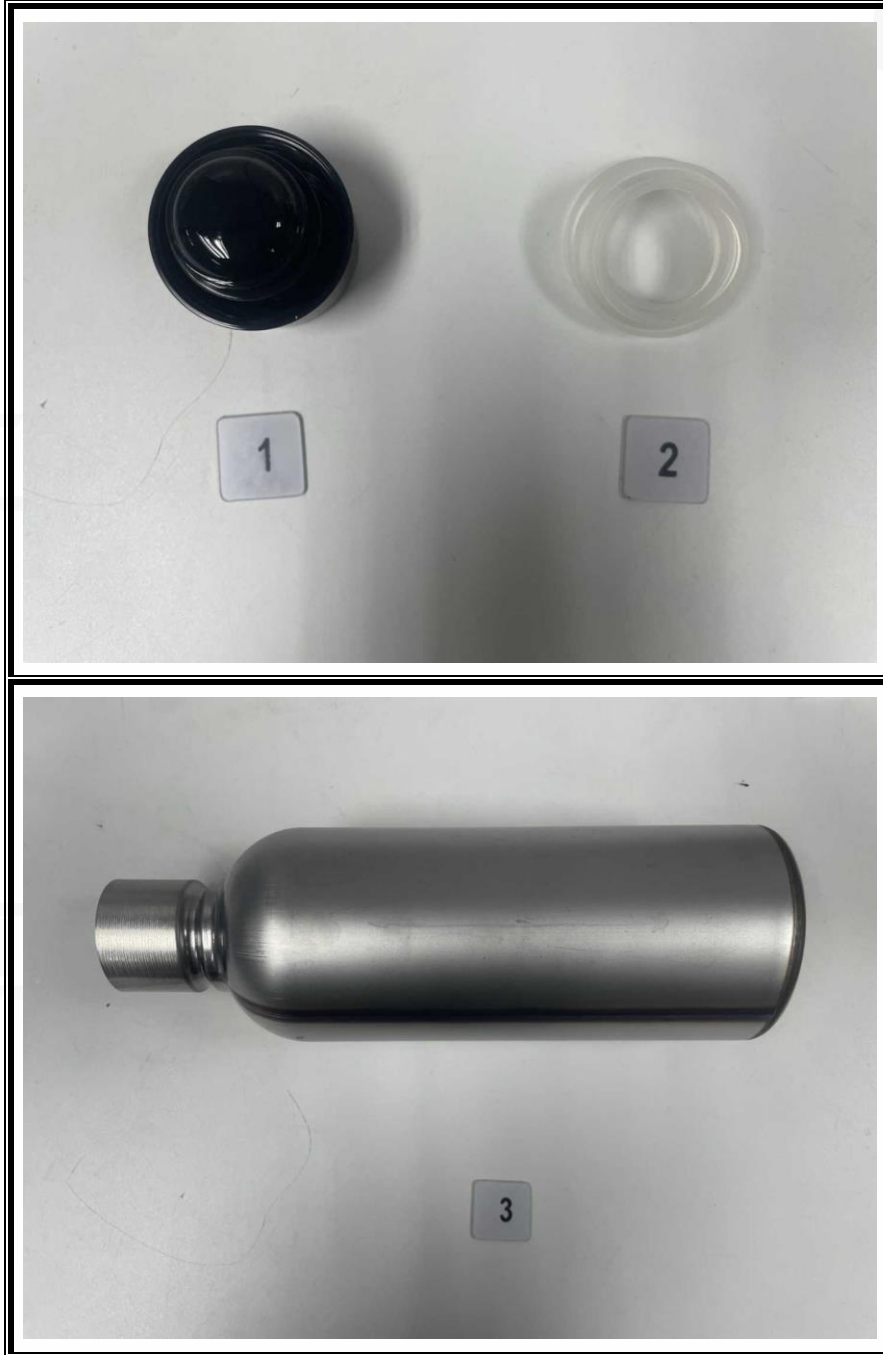


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Photo of Sample:



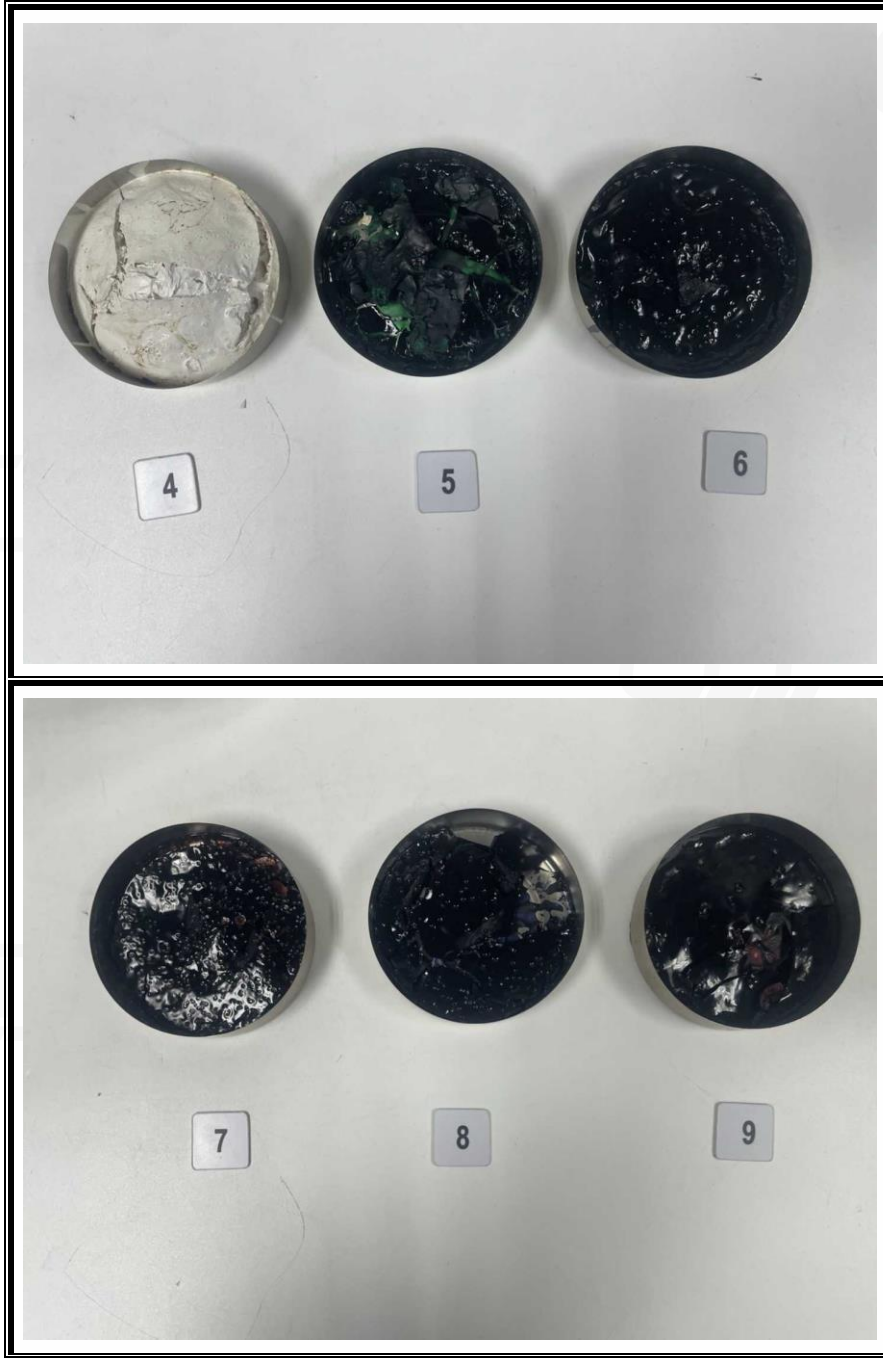
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Photo(s) submitted by client:



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CTT Co., Ltd. is the US Consumer Product Safety Commission (CPSC) Accredited Third Party Testing Laboratory, identification number is 1026, and shall refer to <http://www.cpsc.gov/cgi-bin/labsearch/>.

End of Report

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