

Test Report

Report No.: CTT2002060070ENR1

Date: Mar. 27, 2020

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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.

Sample Received Date: Mar. 19, 2020

Completed Date: Mar. 24, 2020

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

Sample Name: Insulation flask with 2 mugs

Sample Model No.: KC2694

Exported to: Europe

Country of Origin: China

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



Yurong Zhong / Technical Director
Consumer Testing Technology Co., Ltd.



Signed for and on Behalf of CTT



Houbiao/ Technical Director
Consumer Testing Technology Co., Ltd.

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Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Tested materials of submitted samples	COMMISSION REGULATION (EU) No. 10/2011 on plastic materials and articles intended to come into contact with food. - Overall migration - Soluble heavy metal	PASS
2	Tested materials of submitted samples	Framework Resolution Res AP(2004)5 on silicones used for food contact applications. - Overall migration	PASS
3	Tested materials of submitted samples	CM/Res(2013)9 on metals and alloys used in food contact materials and articles. - Specific Release of Heavy Metals	PASS
4	Tested materials of submitted samples	Annex XVII items 63 of the REACH Regulation (EC) No 1907/2006 & amended (EU) No 836/2012 - Lead content	PASS
5	Tested materials of submitted samples	Annex XVII items 23 of the REACH Regulation (EC) No 1907/2006 & COMMISSION REGULATION (EU) No 494/2011 - Total cadmium (Cd)	PASS
6	Tested materials of submitted samples	Annex XVII items 51 & 52 of the REACH Regulation (EC) No 1907/2006 - Phthalates	PASS
7	Tested materials of submitted samples	Client's requirements on Phthalates(DIBP)	PASS
8	Tested materials of submitted samples	Client's requirements on Bisphenol A (BPA)	PASS
9	Tested materials of submitted samples	Annex XVII items 50 of the REACH Regulation (EC) No 1907/2006 Class II - Polycyclic Aromatic Hydrocarbons (PAHs) content	PASS

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Test Result(s):

Overall migration - (EU)No.10/2011

Method: With reference to EN1186-1:2002& EN1186-3:2002.

Material No.	Description	Location
2	Black plastic(PP)	Lid

Material No.	Test Condition	Limit (mg/dm ²)	Result(mg/dm ²)	Conclusion
2	3% Acetic acid(w/v), 100°C, 1 hours	10	<3	PASS
	50% Ethanol(v/v), 100°C, 1 hours	10	<3	PASS

Note: 1. mg/dm² = milligram per square decimetre of surface area of material or article.

Soluble heavy metal ⁿ

Method: With reference to BS EN13130-1:2004, was analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	Description	Location
2	Black plastic(PP)	Lid

Elements	Ba	Co	Cu	Fe	Li	Mn	Zn	Al	Ni	Conclusion
Limit (mg/kg)	1	0.05	5	48	0.6	0.6	5	1	0.02	
Material No.	Result (mg/kg)									
2	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01	PASS

Note: 1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
 2. Test condition: 3% Acetic acid(w/v) at 70°C for 2 hours.



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Test Result(s):

Overall migration - AP(2004)5

Method: With reference to EN1186-1:2002& EN1186-3:2002.

Material No.	Description	Location
3	Transparent silicone	Seal ring

Material No.	Test Condition	Limit (mg/dm ²)	Result(mg/dm ²)	Conclusion
3	3% Acetic acid(w/v), 100°C, 1 hours	10	<3	PASS
	50% Ethanol(v/v), 100°C, 1 hours	10	<3	PASS

Note: 1. mg/dm² = milligram per square decimetre of surface area of material or article.

Specific Release of Heavy Metals ⁿ

Method: With reference to CM/Res(2013)9, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Material No.	Description	Location
1	Silvery metal(304)	Linner

Elements	SRL (mg/kg)		Result (mg/kg)		Conclusion
	1 st + 2 nd	3 rd	1		
			1 st + 2 nd	3 rd	
Tin(Sn)	700	100	< 2	< 1	PASS
Copper(Cu)	28	4	< 2	<1	
Iron(Fe)	280	40	1.7	< 1	
Manganese(Mn)	12.6	1.8	< 0.2	< 0.1	
Zinc(Zn)	35	5	< 2	< 1	
Aluminum(Al)	35	5	< 2	<1	
Barium(Ba)	8.4	1.2	< 0.2	< 0.1	
Titanium(Ti)	--	--	< 2	< 1	
Magnesium(Mg)	--	--	< 2	< 1	
Chromium(Cr)	1.750	0.250	< 0.100	< 0.050	
Nickel(Ni)	0.98	0.14	< 0.10	< 0.05	
Lithium(Li)	0.336	0.048	< 0.020	< 0.010	
Beryllium(Be)	0.07	0.01	< 0.002	< 0.001	

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Vanadium(V)	0.07	0.01	< 0.002	< 0.001
Cobalt(Co)	0.14	0.02	< 0.002	< 0.001
Molybdenum(Mo)	0.84	0.12	< 0.02	< 0.01
Silver(Ag)	0.56	0.08	< 0.02	< 0.01
Antimony(Sb)	0.28	0.04	< 0.02	< 0.01
Lead(Pb)	0.07	0.01	< 0.002	< 0.001
Arsenic(As)	0.014	0.002	< 0.002	< 0.001
Cadmium(Cd)	0.035	0.005	< 0.002	< 0.001
Mercury(Hg)	0.021	0.003	< 0.002	< 0.001
Thallium(Tl)	0.0007	0.0001	< 0.0002	< 0.0001

- Note:**
1. "--" = No requirement.
 2. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
 3. SRL = Specific Release Limit.
 4. Test Condition: 0.5% Citric acid at 70°C for 2 hours,

Test Result(s):

REACH - Lead content

Method:

Metal - CPSC-CH-E1001-08.3

Nonmetal - CPSC-CH-E1002-08.3

Surface coating - CPSC-CH-E1003-09.1, analyzed by Atomic Absorption Spectroscopy (AAS) .

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	500	12	PASS
2+5	500	N.D.	PASS
3	500	N.D.	PASS
4	500	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.
 4. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.



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Test Result(s):

Total cadmium (Cd) ⁿ

Method:

Metal - With reference to CPSC-CH-E1001-08.3

Nonmetal - With reference to CPSC-CH-E1002-08.3

Surface coating - With reference to CPSC-CH-E1003-09.1, analyzed by Atomic Absorption Spectroscopy (AAS) .

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
2+5	100	N.D.	PASS
3	100	N.D.	PASS
4	100	N.D.	PASS

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

Phthalates

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

Test Substances	CAS No.	Report Limit (mg/kg)	Limit (mg/kg)	Result (mg/kg)	
				No.(2+4+5)	No.3
Dibutyl phthalate(DBP)	84-74-2	50	--	N.D.	N.D.
Butyl benzyl phthalate(BBP)	85-68-7	50	--	N.D.	N.D.
Bis(2-ethylhexyl) phthalate(DEHP)	117-81-7	50	--	N.D.	N.D.
SUM (DBP+BBP+DEHP)	--	--	1000	N.D.	N.D.
Di-n-octyl phthalate(DNOP)	117-84-0	50	--	N.D.	N.D.
Diisodecyl phthalate(DIDP)	26761-40-0 68515-49-1	100	--	N.D.	N.D.
Diisononyl phthalate(DINP)	28553-12-0 68515-48-0	100	--	N.D.	N.D.
SUM (DNOP+DIDP+DINP)	--	--	1000	N.D.	N.D.
Conclusion				PASS	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).

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3. RL = Report Limit.
4. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Test Result(s):

Phthalates

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

Test Substances	CAS No.	Client's Limit (mg/kg)	Limit (mg/kg)	Result(mg/kg)	
				No.(2+4+5)	No.3
Diisobutyl phthalate(DIBP)	84-69-5	1000	--	N.D.	N.D.
Conclusion				PASS	PASS

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

Bisphenol A (BPA) ⁿ

Method: With reference to US EPA 3540C:1996, analyzed by Ultra-high performance liquid chromatography - tandem mass spectrometry (UPLC-MS).

Material No.	Client's Limit (mg/kg)	Result (mg/kg)	Conclusion
2	0.05	N.D.	PASS
3	0.05	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL(Reporting Limit) =0.05mg/kg.



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Test Result(s):

Polycyclic Aromatic Hydrocarbons (PAHs) ⁿ

Method: With reference to AfPS GS 2014:01 PAK, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substance	CAS No.	Limit (mg/kg)			Result (mg/kg)
		I	II	III	No.(2+5)
Benzo[a]anthracene(BaA)	56-55-3	--	1	0.5	N.D.
Chrysene (CHR)	218-01-9	--	1	0.5	N.D.
Benzo[b]fluoranthene(BbFA)	205-99-2	--	1	0.5	N.D.
Benzo[k]fluoranthene(BkFA)	207-08-9	--	1	0.5	N.D.
Benzo[a]pyrene(BaP)	50-32-8	1	1	0.5	N.D.
Dibenzo[a,h]anthracene(DBAhA)	53-70-3	--	1	0.5	N.D.
Benzo[e]pyrene(BeP)	192-97-2	--	1	0.5	N.D.
Benzo[j]fluoranthene(BjFA)	205-82-3	--	1	0.5	N.D.
SUM		10	--	--	N.D.
Conclusion					PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D = Not Detected (<RL).
 3. RL (Reporting Limit) = 0.20 mg/kg.
 4. "--" = Not Regulated.
 5. 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.
 6. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

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Test Material List

The following materials apply only to the samples submitted for chemical testing

Material No.	Description	Location
1	Silvery metal(304)	Linner
2	Black plastic(PP)	Lid
3*	Transparent silicone	Seal ring
4	Black foam(EVA)	Coaster
5	Black plastic(PP)	Handle

Note: The testing material marked "*" are taken from components/raw materials.

Remark: CTT2002060070EN is replaced by this report.

Photo of Testing Sample:



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Photo of Testing Sample:



End of Report

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