

Test Report

Report No.:CTT190712435EN

Date: Jul. 06, 2019

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Applicant:

Address:

Sample Received Date: Jul. 02, 2019

Completed Date: Jul. 06, 2019

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

Sample Name: THERMO MUG, DRINKING BOTTLE, COFFEE MUG

Sample Model: MO7490,MO7841,MO9105,MO9228

Supplier:

Buyer: MID OCEAN BRANDS B.V.
7/F., KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA WAN,
KOWLOON, HONGKONG

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



Hilary He / Technical Manager
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 - Specific migration of Acrylonitrile	PASS
2	Tested materials of submitted samples	COMMISSION REGULATION (EU)No.10/2011 and (EU)2017/752 on plastic materials and articles intended to come into contact with food. - Soluble heavy metal	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 51 & 52 of the REACH Regulation (EC) No 1907/2006 - Phthalates	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 63 of the REACH Regulation (EC) No 1907/2006 & amended (EU) No 836/2012 - Lead content	PASS
7	Tested materials of submitted samples	Bisphenol A (BPA)	DATA

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Test Result(s):

Overall migration

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

Material No.	Test Condition	Limit (mg/dm ²)	Result(mg/dm ²)	Conclusion
1	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	10% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
2	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	10% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
3	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	10% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
4	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	10% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS

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

Soluble heavy metal

Method: With reference toBS EN13130-1:2004,was analyzed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

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)									Conclusion	
1	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01		PASS
2	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01		PASS
3	<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):

Specific migration of Acrylonitrile

Method:With reference to BS EN 13130-3:2004, analyzed by Headspace Gas Chromatograph(HS-GC).

Material No.	Test Condition	Limit (mg/kg)	Result (mg/kg)	Conclusion
3	3% Acetic acid(w/v), 70°C, 2 hours	0.01	<0.01	PASS

Note: 1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.

Specific Release of Heavy Metals

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

Elements	SRL (mg/kg)		Result (mg/kg)		Conclusion
	1 st + 2 nd	3 rd	5		
			1 st + 2 nd	3 rd	
Tin(Sn)	700	100	< 2	< 1	PASS
Copper(Cu)	28	4	< 2	<1	
Iron(Fe)	280	40	< 2	< 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	
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	0.0061	0.0020	
Arsenic(As)	0.014	0.002	< 0.002	< 0.001	

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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):

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)
				1
Dibutyl phthalate(DBP)	84-74-2	50	--	N.D.
Butyl benzyl phthalate(BBP)	85-68-7	50	--	N.D.
Bis(2-ethylhexyl) phthalate(DEHP)	117-81-7	50	--	N.D.
SUM (DBP+BBP+DEHP)	--	--	1000	N.D.
Di-n-octyl phthalate(DNOP)	117-84-0	50	--	N.D.
Diisodecyl phthalate(DIDP)	26761-40-0 68515-49-1	100	--	N.D.
Diisononyl phthalate(DINP)	28553-12-0 68515-48-0	100	--	N.D.
SUM (DNOP+DIDP+DINP)	--	--	1000	N.D.
Conclusion				PASS

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

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

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

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

Test Result(s):

Total cadmium (Cd)

Method:

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

Nonmetal - With reference to CPSC-CH-E1002-08.3/EN1122:2001(plastic)

Analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	100	N.D.	PASS
2	100	N.D.	PASS
3	100	N.D.	PASS
4	100	N.D.	PASS
5	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.

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Test Result(s):

REACH - Lead content

Method:

Metal - CPSC-CH-E1001-08.3

Nonmetal - CPSC-CH-E1002-08.3

Analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	500	N.D.	PASS
2	500	N.D.	PASS
3	500	N.D.	PASS
4	500	N.D.	PASS
5	500	11	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.

Bisphenol A (BPA)

Method: With reference to EPA 3550C:2007, analyzed by Liquid Chromatography- Mass Spectrometry (LC-MS/MS).

Material No.	Result (mg/kg)
1	N.D.
2	N.D.
3	N.D.
4	N.D.

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL(Reporting Limit) =0.1mg/kg.

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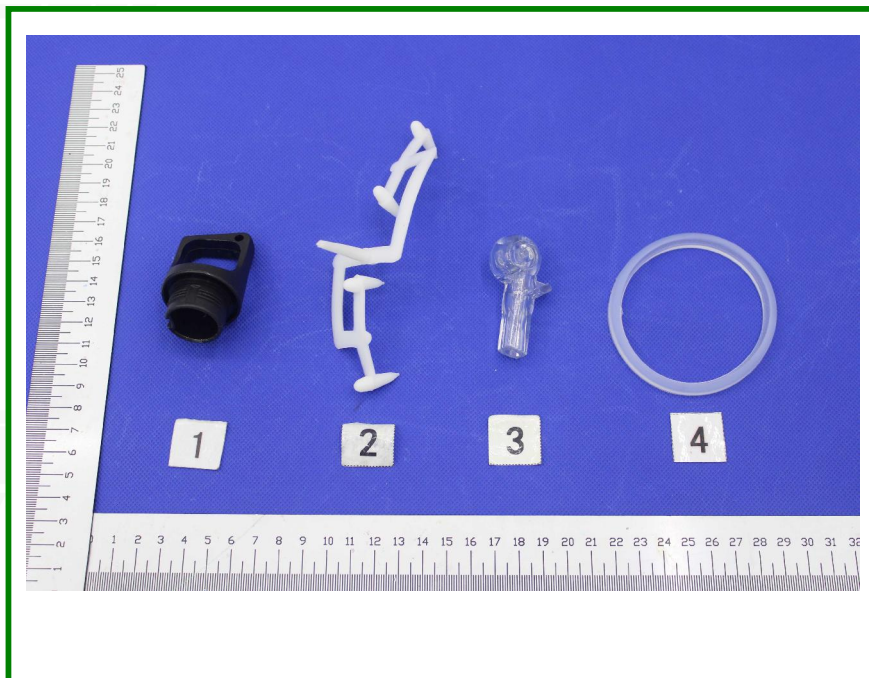
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Test Material List

Material No.	Description	Location
1	Black plastic(PP)	Body
2	White plastic(TPR)	Body
3	Semi-transparent plastic(AS)	Body
4	White silicone	Seal ring
5	Silvery metal	Lining

Photo of Sample:



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Photo of Sample:



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Photo of Sample:



End of Report

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