

TEST REPORT

Test Report # Date of Sample Received: 19A-007077-2 November 19, 2019 Date of Report Issue: Pages:

November 25, 2019 Page 1 of 15

CLIENT INFORMATION:

Company: Address:

Mid Ocean Brands B.V.
7/F,Kings Tower,111 King Lam Street,Cheung Sha Wan,Kowloon,Hong Kong



SAMPLE INFORMATION:

Product Name:	1Single wall tumbler 2 Reusable	le mug with handle	
Style No.:	-	Labeled Age Grade:	-
Order No.(PO No.):	-	Client Request Age Grade:	-
Country of Origin:	-	Recommended Age Grade:	-
Country of Distribution:	Europe	Tested Age Grade:	-
Model No.:	①M06106②M06107		
Composition/Main Material:	1-2Coffee husk,silicone		
Buyer Name:	Mid Ocean Brands B.V.		
Supplier Name:	100396		
Testing Period:	11/19/2019-11/25/2019		
Country of Origin: Country of Distribution: Model No.: Composition/Main Material: Buyer Name: Supplier Name:	 MO6106²MO6107 Coffee husk, silicone Mid Ocean Brands B.V. 100396 	Recommended Age Grade:	

OVERALL RESULT:

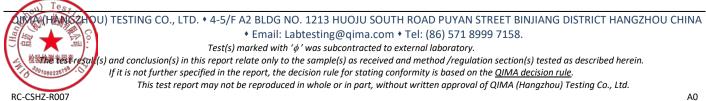
PASS

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

Keim. Lee

Kevin Lee **Technical Manager**



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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 22 Pentachlorophenol
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Sensorial examination odour and taste test
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011, its amendment (EU) 2016/1416 and Res AP(2004)5- Overall migration
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- Specific migration of heavy metals
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Primary Aromatic Amines
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Bisphenol A
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 and Commission Regulation (EU) 2015/174- Specific migration of formaldehyde

Remark: Test results are transferred from test report no. 19A-007077-1 date: 11/25/2019



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials

Test Method:CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+4	2+3				Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND				500
Conclusion	PASS	PASS				

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials

Test Method:	ASTM F963-17 Clause 8.3.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+4	2+3				Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Cadmium (Cd)	ND	ND				100
Conclusion	PASS	PASS				

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 22 Pentachlorophenol

Test Method:In-House MethodAnalytical Method:Gas Chromatography with Mass Spectrometry

Specimen No.		1				Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Pentachlorophenol (PCP)	87-86-5	ND				1000
Conclusi	on	PASS				

Note: mg/kg = Milligrams per kilogram LT = Less than ND = Not detected (Reporting Limit = 1 mg/kg)



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates -Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method:	CPSC-CH-C1001-09.4
Analytical Method:	Gas Chromatography with Mass Spectrometry

Specimen No.		1+4	2+3		Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND		1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND		1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND		1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND		1000
Sum of DBP, BBP, DEHP, D	DIBP	ND	ND		1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND		
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND		
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND		
Sum of DnOP, DINP, DIDP		ND	ND		1000
Conclusion		PASS	PASS		

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011 -Sensorial examination odour and taste test

Test Method:DIN 10955: 2004Test condition:70°C, 2 hoursTest media:Distilled waterNo. of panelist: 6

Specimen No.	5				Max.Permissible
Test Item	Result	Result	Result	Result	Limit
Sensorial examination odour (Point scale)	0				2.5
Sensorial examination taste (Point scale)	0				2.5
Conclusion	PASS				

Scale evaluation:

0: No perceptible odour

1: Odour just perceptible (still difficult to define)

2: Moderate odour

3: Moderately strong odour

4: Strong odour



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DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011, its amendment (EU) 2016/1416 and Res AP(2004)5-Overall migration

Test method: EN1186-1:2002: for selection of conditions and test methods EN1186-3:2002: aqueous food simulants by total immersion EN1186-9:2002: aqueous food simulants by article filling

Specimen No.		1	3	4	Maximum
Simulant used	Test condition	Result (mg/dm²)	Result (mg/dm²)	Result (mg/dm²)	permissible Limit (mg/dm²)
10% ethanol	2 hours at 70°C	ND	ND	ND	10
Conclusion		PASS	PASS	PASS	

Note:

mg/dm² =milligram per square decimeter ND = Not Detected (Reporting limit = 3 mg/dm²)



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DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- Specific migration of heavy metals

Test method: Sample preparation in 3% acetic acid at 70°C for 2hours ,ISO 17294-2:2016 Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Specimen No.		1				Maximum
Test Item	Detection	Result	Result	Result	Result	permissible Limit
restitem	limit	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Barium	0.1	ND				1
Cobalt	0.05	ND				0.05
Copper	0.5	ND				5
Iron	1.0	ND				48
Lithium	0.1	ND				0.6
Manganese	0.1	ND				0.6
Zinc	1.0	ND				5
Aluminum	0.1	ND				1
Nickel	0.01	ND				0.02
Conclus	sion	PASS				

Note:

mg/kg=milligram per kilogram ND= Not Detected



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DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011 - Specific migration of Primary Aromatic Amines

Test Method: In House Method

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1				Limit	
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)	
Primary Aromatic Amines migration	70℃, 2hours 3% Acetic acid	ND				Non- detectable	
Conclusion		PASS					

Note :

mg/kg = milligram per kilogram = ppm

ND = Not Detected (Reporting Limit= 0.01mg/kg)



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DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Bisphenol A

Test method: EN 13130-1:2004 & DD CEN/TS 13130-13:2005

Specimen No.		1	3				Limit
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Bisphenol A (BPA)	70° C, 2hours 3% Acetic acid	ND	ND				0.05
Conclusion		PASS	PASS				

Note :

mg/kg = milligram per kilogram = ppm

ND = Not Detected (Reporting Limit= 0.05mg/kg)



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DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011 and Commission Regulation (EU) 2015/174- Specific migration of formaldehyde

Test method: EN 13130-1:2004 & DD CEN/TS 13130-23:2005

Specimen No.		1					Limit
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Formaldehyde	70°℃, 2hours 3% Acetic acid	ND					15
Conclusion		PASS					

Note :

mg/kg = milligram per kilogram = ppm ND = Not Detected (Reporting Limit= 3mg/kg)



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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location		
1	Dark coffee plastic	Main body(coffee cup style)		
2	White soft plastic	Main body(coffee cup style)		
3	White soft plastic	Lid(coffee cup style)		
4	Dark coffee plastic	Main body(mug style)		
5	Single wall tumbler	Finished product(coffee cup style)		



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SAMPLE PHOTO:







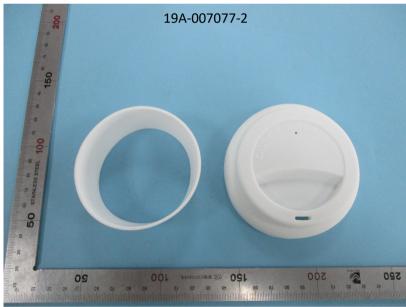
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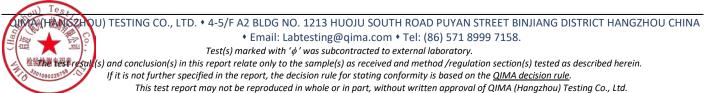


SAMPLE PHOTO:





-End Report-



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