

TEST REPORT

Test Report # 19A-007028-2 Date of Report Issue: November 22, 2019
Date of Sample Received: November 18, 2019 Pages: Page 1 of 12

CLIENT INFORMATION:

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



SAMPLE INFORMATION:

Product Name: Double wall coffee mug
Style No.: - Labeled Age Grade: -
Order No.(PO No.): - Client Request Age Grade: -
Country of Origin: - Recommended Age Grade: -
Country of Distribution: - Tested Age Grade: -
Model No.: MO6108
Composition/Main Material: Coffee husk,PP
Buyer Name: Mid Ocean Brands B.V.
Supplier Name: 100396
Testing Period: 11/18/2019-11/22/2019

OVERALL RESULT:

φ PASS

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

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Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule.

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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 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 and its amendment (EU) 2016/1416- 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-007028-1 date: 11/22/2019



DETAILED RESULTS:

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

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

Specimen No.		1	2	3	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Pentachlorophenol (PCP)	87-86-5	ND	ND	ND	---	1000
Conclusion		PASS	PASS	PASS	---	

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



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



DETAILED RESULTS:

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

Test Method: DIN 10955: 2004
 Test condition: 70°C, 2 hours
 Test media: Distilled water
 No. of panelist: 6

Specimen No.	4	---	---	---	Max.Permissible Limit
Test Item	Result	Result	Result	Result	
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



DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- 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	2	3	Maximum permissible Limit (mg/dm ²)
Simulant used	Test condition	Result (mg/dm ²)	Result (mg/dm ²)	Result (mg/dm ²)	
20% 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)



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	2	3	---	Maximum permissible Limit (mg/kg)
Test Item	Detection limit	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Barium	0.1	ND	ND	ND	---	1
Cobalt	0.05	ND	ND	ND	---	0.05
Copper	0.5	ND	ND	ND	---	5
Iron	1.0	ND	ND	ND	---	48
Lithium	0.1	ND	ND	ND	---	0.6
Manganese	0.1	ND	ND	ND	---	0.6
Zinc	1.0	ND	ND	ND	---	5
Aluminum	0.1	ND	ND	ND	---	1
Nickel	0.01	ND	ND	ND	---	0.02
Conclusion		PASS	PASS	PASS	---	

Note:

mg/kg=milligram per kilogram

ND= Not Detected



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	2	3	---	Limit (mg/kg)
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Primary Aromatic Amines migration	70°C, 2h 3% Acetic acid	ND	ND	ND	---	Non-detectable
Conclusion		PASS	PASS	PASS	---	

Note :

mg/kg = milligram per kilogram = ppm

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



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	---	---	---	---	Limit (mg/kg)
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	70°C, 2h 3% Acetic acid	ND	---	---	---	---	0.05
Conclusion		PASS	---	---	---	---	

Note :

mg/kg = milligram per kilogram = ppm

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



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	2	3	---	---	Limit (mg/kg)
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Formaldehyde	70°C, 2h 3% Acetic acid	ND	ND	ND	---	---	15
Conclusion		PASS	PASS	PASS	---	---	

Note :

mg/kg = milligram per kilogram = ppm

ND = Not Detected (Reporting Limit= 3mg/kg)



SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Coffee plastic	Main body
2	Dark coffee plastic	Lid
3	Dark coffee plastic	Nozzle lid
4	Double wall coffee mug	Finished product



SAMPLE PHOTO:



-End Report-

